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PERSONAL.

Mr. Val. Morrison has been appointed Manager of the water-works at Ennis, Tex.

Mr. James W. G. Walker has been appointed a Civil Engineer in the United States Navy, with rank of Lieutenant, junior grade.

Mr. Jacob L. Kuehn, for over 40 years Superintendent of the York Water Co. and of the York Gas Co., York, Pa., has resigned the former position.

Dr. David Gill, the British astronomer at the Cape of Good Hope, South Africa, has been elected a Foreign Member of the National Academy of Sciences, Washington, D. C.

Mr. James Donnelly, for many years Division Superintendent of the Easton & Amboy and the Lehigh Divisions of the Lehigh Valley R. R., with headquarters at Easton, Pa., has resigned; to take effect Sept. 1.

Mr. Alexander Rice McKim, M. Am. Soc. C. E., consulting engineer, of New York city, has accepted the position of Resident Engineer of the Pittsburg Testing Laboratory, Ltd., Pittsburg, Pa., with headquarters at 106 East 23d St.

Mr. George Schley, consulting civil and mining engineer, leaves for British Honduras Aug. 8, to be gone about eight weeks. During his absence he will be represented by Mr. George R. Olney, 27 Thames St., New York city, or 16 Willow Ave., Stamford, Conn.

Rear-Admiral John G. Walker, retired, U. S. Navy, has been appointed a member of the commission to examine the plans for a bridge across the Niagara River, at Grand Island. The plans must be approved by both the United States and the Dominion of Canada.

Mr. Theodore Belzner, Jun. Am. Soc. C. E., 111 Broadway, New York, has resigned his position as Assistant Engineer to the expert in charge of buildings of that city, which he has held for the past two years. He has also been an assistant expert on the valuation of buildings for three years.

Mr. A. J. Churchyard, formerly connected with the Excelsior Co. as Electrical Engineer, has been appointed to a position in the engineering department of the Fort Wayne Electric Corporation, Fort Wayne, Ind. He is best known for his work with single-phase alternating motors and rotary transformers.

Mr. Robert L. Gifford, civil engineer, of Chicago, Ill., has associated himself with Mr. Robert G. Dwen, architect, of the same city, in the joint practice of architecture and engineering, with offices at 187 Dearborn St. Mr. Dwen was formerly associated with Mr. Murray A. White under the firm name of Dwen & White, architects.

Mr. Charles E. Billin, Western Representative of Bement, Miles & Co., Philadelphia, has resigned and will in the future devote all his attention to the business of Chas. E. Billin & Co., Chicago, Ill., which firm is acting as engineers and purchasing agents for a number of mining properties in the western states and in Mexico.

Herr Max Buhle, Assistant Professor in the Royal Technical High School of Berlin, and a Member of the German Society of Engineers, is visiting the United States to study American practice in hoisting and conveying machinery, coal, ore and grain handling machinery, street railways and other fields of engineering work. Prof. Buhle will visit Boston, Schenectady, Niagara Falls, Buffalo, Cleveland, Chicago, Milwaukee, Minneapolis and St. Paul, Duluth and Superior, St. Louis, Washington, Philadelphia, and may possibly extend his trip to San Francisco. Prof. Buhle will be glad to receive the catalogues of American manufacturers of engineering materials, which may be sent to him in care of Thos. Prosser & Sons, 15 Gold St., New York city.

OBITUARY.

Mr. J. M. Byers, contractor, of Oskaloosa, Ia., died there July 24, aged 85.

Mr. William H. Bates, contractor, of St. Charles, Mo., died July 24, aged 75.

Mr. W. H. Holly, Superintendent of the Paducah Water Co., Paducah, Ky., died July 23, aged 48.

Mr. William P. Merrill, who built the first water-works of Milwaukee, Wis., died at Battle Creek, Mich., July 25, aged 82.

Mr. Claude W. Matson, civil engineer, of Brookville, Pa., was killed July 28 while attempting to board a train at Pittsburg. He was 27 years of age.

Mr. George Josselyn, mechanical engineer, of Cedar Rapids, Ia., died July 22, aged 77. He was born in Kingston, Jamaica, W. I. I., and was educated in Neuwiede, Germany. In 1839 he came to the United States and settled at Dayton, O. He was the Superintendent of Construction for the Josselyn & Taylor Co., Cedar Rapids, at the time of his death.

Dr. E. Lewis Sturtevant, formerly President of the Society for the Promotion of Agricultural Science, died at his home in Framingham, Mass., July 30. He was born in Boston, Jan. 23, 1842, and graduated from Bowdoin College, Brunswick, Me., in 1863. In 1866 he graduated from the medical department of Howard University and devoted himself to agricultural science. He was a Fellow of the American Association for the Advancement of Science.

Mr. Joseph Banigan, rubber manufacturer and formerly President of the United States Rubber Co., of Providence, R. I., died July 29. He was born in Carickadoncey, Ireland, June 5, 1839, and came to this country when eight years of age. He learned the jeweler's trade and then made a study of rubber, later engaging in the manufacture of rubber bottle stoppers. He soon afterwards discovered, it is said, a process for vulcanizing rubber and established the Goodyear India Rubber Bottle-Stopper Co. in Boston, Mass., and was its Manager until 1866. At that time he organized the Woonsocket Rubber Co., Woonsocket, R. I., and was its Superintendent and Manager. Three years ago he was made the President of the United States Rubber Co. at a salary of $50,000 a year. He was also President of a number of other companies and was interested in various manufacturing enterprises.

Mr. Edward Appleton, civil engineer, of Reading, Mass., died there July 31. He was born in Boston, Jan. 25, 1816, and graduated from Harvard University in 1835. After two years spent in tutoring he began the study of civil engineering in the office of James Hayward, being employed on the construction of the Boston & Maine R. R., in Haverhill, Dover and Exeter. In 1842 and 1843 he was Principal of the Beverly Academy and in 1844 returned to the Boston & Maine, in charge of the construction of the line from Wilmington to Greenwood. In 1846 he located in Reading, and spent the remainder of his life on railway work in the New England States, and also in New York, Pennsylvania, Ohio and Wisconsin. For several years he was Chief Engineer of the Boston, Hartford & Erie R. R., now the New England R. R. He was a railroad commissioner of Massachusetts in 1869 and 1870, and was also President of the Troy & Greenfield R. R. for several years. In 1890 he retired from professional work.

ENGINEERING SOCIETIES.

COMING TECHNICAL MEETINGS.

THE LOUISIANA ENGINEERING SOCIETY.
Aug. 8. "Deep Bridge Foundations at the Atchafalya River, T. & P. Crossing," C. H. Chamberlin. Secy., J. F. Coleman, 712 Union St., New Orleans, La.

CIVIL ENGINEERS' CLUB OF CLEVELAND.
Aug. 9. Secy., Wm. H. Searles, Case Library Bldg., Cleveland, O.

MONTANA SOCIETY OF ENGINEERS.
Aug. 13. Secy., A. S. Hovey, National Bank Bldg., Helena, Mont.

ENGINEERS' CLUB OF MINNEAPOLIS.
Aug. 15. Secy., H. E. Smith, 1620 S. E. 4th St., Minneapolis, Minn.

ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA.
Aug. 16. Secy., R. A. Fessenden, 410 Penn Ave., Pittsburg, Pa.

WESTERN FOUNDRYMEN'S ASSOCIATION.
Aug. 17. Secy., B. M. Gardner, 1522 Monadnock Block, Chicago, Ill.

NEW ENGLAND ROAD MASTERS' ASSOCIATION.
Aug. 17. Annual meeting, Boston, Mass. F. C. Stowell, B. & M. R. R., Ware, Mass.

SOCIETY FOR THE PROMOTION OF ENGINEERING EDUCATION.
Aug. 18 to 20. Annual meeting at Massachusetts Institute of Technology, Boston, Mass. Secy., Albert Kingsbury, Durham, N. H.

AMERICAN MATHEMATICAL SOCIETY.
Aug. 19-20. Annual meeting, Boston, Mass. Secy., F. N. Cole, Columbus University, New York city.

AMERICAN CHEMICAL SOCIETY.
Aug. 22-23. Annual meeting, Boston, Mass. Secy., Albert C. Hale, 551 Putnam Ave., Brooklyn, N. Y.

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.
Aug. 22-27. Annual meeting, Boston, Mass. Secy., F. W. Putnam, Salem, Mass.

GEOLOGICAL SOCIETY OF AMERICA.
Aug. 23. Annual meeting Boston, Mass. Secy., H. L. Fairchilds, Rochester, N. Y.

AMERICAN FORESTRY ASSOCIATION.
Aug. 23-24. Annual meeting, Boston, Mass. Pres., Francis H. Appleton, 101 Tremont St., Boston, Mass.

TECHNICAL SOCIETY OF THE PACIFIC COAST.
Sept. 2. Secy., O. Von Geldern, 819 Market St., San Francisco, Cal.

ENGINEERS' SOCIETY OF WESTERN NEW YORK.
Sept. 5. Secy., H. J. March, Library Bldg., Buffalo, N. Y.

ROADMASTERS' ASSOCIATION OF AMERICA.
Sept. 13. Annual meeting, Denver, Colo. Secy., J. B. Dickson, Sterling, Ill.

CENTRAL STATES WATER-WORKS ASSOCIATION.
Sept. 27-29. Annual meeting, Springfield, O. Secy., John Fisher, 11 Riley St., Hamilton, O.

AMERICAN INSTITUTE OF MINING ENGINEERS.
Oct. 18. Annual meeting Buffalo, N. Y. Secy., R. W. Raymond, P. O. Box 228, New York city.

CENTRAL STATES WATER-WORKS ASSOCIATION.—The annual convention of this association will be held at Springfield, O., Sept. 27-29. It is expected that fully 200 delegates will attend.

ASSOCIATION OF EDISON ILLUMINATING COMPANIES.—The annual convention of this association will be held at Sault Ste. Marie, Sept. 12-13. Arrangements are being made for a lake trip previous to the meeting, the Eastern members taking the boat, either the Northwest or North Land, at Buffalo and the Western members at Detroit.

THE WESTERN FOUNDRYMEN'S ASSOCIATION.—The regular monthly meeting of this association, held July 20, was devoted to discussing the papers read at the Cincinnati convention held June 23.

The first paper, "Trolley Systems in the Foundry," by Mr. Herbert M. Ramp was read by the secretary preparatory to its discussion. Mr. E. H. Putnam's paper, "Inspection of Castings," was then read and discussed.

NEW PUBLICATIONS.

LITERARY MAGAZINES.—Two of the great English reviews for July, the "Fortnightly" and "Nineteenth Century," give prominent place to articles discussing the new "era of good feeling" between Great Britain and America and its possible influence in International politics. Mr. Frederick Greenwood, in the last named magazine, is inclined to think that America will be glad to have England's help in her own complications, but if England wants aid in return she will get the cold shoulder. At the same time he thinks that if the United States is really setting out to become one of the great world powers, the day will come when she will need and welcome an alliance in which she can both give and get; and he esteems the fact that both nations happened to be looking for a friend at the same time and found one in each other, highly fortunate for both.

The following extract is interesting as showing how our attack of Spain is regarded by European nations:

. . . . when the American Republic assaults a European State upon extra-legal grounds the door is opened for similar attack by Europe on the American Republic. A spell of immunity surrounded her; she reads the charm backwards and the spell is broken. For the people of the United States should remember that their justification of moral impulse is by no means unchallengeable. Its existence is openly denied by some of their own most learned and lofty minds. And if Europe were to say that here is a case where one country nurses insurrection in another, and then founds a moral right of invasion on the consequences, it could make out a very strong argument, which many commercial Americans are aware of.

An anonymous writer in the "Fortnightly" takes even stronger ground in urging that the United States will never repay the moral support which England has given in the present struggle; and thinks that England wants either an out and out alliance with this country or else no connection whatever.

In the same magazine Hon. T. A. Brassey discusses the question: "Can England Hold Her Own at Sea," and expresses the opinion that England's Navy is at present superior to that of any two powers combined, and this superiority can be maintained. He questions, however, whether the nation is strong enough to keep the fleet equal in strength to the fleets of three powers combined, and looks to the federation of England's colonies and a possible future alliance with the United States as the best means of securing the nation's safety. "The Nineteenth Century" also has a valuable statistical paper on the "Coal Supplies of the World."

In the "Pall Mall Magazine" for July the series of articles on "The Evolution of Comfort in Railway Travel" is concluded with a finely illustrated description of modern American passenger travel by Mr. Angus Sinclair, in which especial reference is made to the great improvement in the lighting of passenger cars, which has resulted from the general introduction of the Pintsch gas system. H. W. Wilson writes on current naval problems, and says that in the present war the navies opposed to each other at the outset were not unlike in their relative strength what the navies of England and France would be if brought to battle at the present time. In the August number of the same magazine Admiral Colomb writes on the lessons of the present war and makes a very readable paper, though he makes such slips as calling our own Sampson, "Admiral Hampton." Although the article was written before the battle of July 3, Admiral Colomb did not hesitate to express his wonder at Cervera's tactics and prophesied that he would not escape from Santiago.

The August "Home Magazine" has a long paper entitled "Harnessing the Earth," in which a large number of the water power and electric transmission plants erected during the last few years in this country are described. The article had better have been called "Harnessing the Rivers."

In "McClure's" for August Lieut.-Col. A. S. Rowan tells of his adventurous ride across Cuba to Gen. Garcia's headquarters in May last, and Gen. Miles describes the field manueuvers of the Russian, German and French troops last autumn.

The more popular literary magazines are giving so much of their space usually devoted to "solid matter," to articles upon the war and the new territories into which the United States arms have been carried; that they have little to spare for articles on scientific or engineering topics. "The August Century," however, has two very brief articles deserving note here, one describing the system of forest preservation which has worked such wonders in India, the other by Mark Twain, entitled "The Austrian Edison Keeping School Again." It appears that Jan Szczepanik, the inventor of the new "telectroscope," and the application of photography to pattern designing, was a poor country schoolmaster. He could not get leave of absence to go to Vienna to market his invention, so he deserted. This lost him his position but gained him a fortune. Now, however, he is obliged to do compulsory mili-

tary service for three years, according to the law, to which, naturally, he is much opposed at a time when he is just setting out on an inventive career, and the government is also loath to take the young man, who has done so much for the nation's fame, away from his work. This dilemma has been solved, not by an amendment of the law, or the passage of a special act; that is not the continental way; but by allowing the inventor to nominally turn schoolmaster again. As schoolmasters are exempt from military service, once in every two months Szezepanik must return to his native village and teach school half a day.

In the "Atlantic" Prof. Simon Newcomb begins a most interesting series of articles on "The Reminiscences of an Astronomer," describing a visit to England three decades ago, and many famous scientists of that day. "Harper's" for August has an article on the "Grand Canon of the Colorado," by T. M. Prudden, the well-known bacteriologist, which will interest any of our readers who have ever had occasion to explore this wild region of the Southwest.

In the "Popular Science Monthly" for August, Prof. Israel C. Russell, of the U. S. Geological Survey, writes on "Topographical Features Due to Landslides." He explains the occurrence of many foothills and of small lakes without outlets in the lava covered region of Oregon, Washington and Idaho, on the theory that they are due to landslides from the adjacent cliffs and mountain ranges.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
Aug. 4.	Electric railway franchise, Plainfield, N. J.		July 28
Aug. 4.	Bridge, Urbana, Ill.		July 28
Aug. 4.	Paving bonds, Carlsbadt, N. J.		July 28
Aug. 4.	Hospital building, Lockport, N. Y.		July 28
Aug. 4.	Bridge bonds, Jersey City, N. J.		July 28
Aug. 4.	Substructure, Brooklyn, N. Y.		July 28
Aug. 4.	Dam, tunnel, etc., Ogden, Utah. Advertised, Engineering News, July 21.		July 21
Aug. 4.	Addition to court house, York, Pa.		July 21
Aug. 4.	Water pipe, Cattaraugus, N. Y.		July 21
Aug. 4.	Macadamizing, Boston, Mass.		Aug. 4
Aug. 4.	Road work, Plymouth, Mass.		Aug. 4
Aug. 4.	Iron bridge, Easton, Pa.		Aug. 4
Aug. 4.	Dredging, Boston, Mass.		Aug. 4
Aug. 4.	Pipe sewers, Erie, Pa.		Aug. 4
Aug. 5.	Pier, Cleveland, O.		July 14
Aug. 5.	Engines (2), Concord, Mass. Advertised, Engineering News, July 28.		July 28
Aug. 5.	Sewers, grading, etc., Wilmington, Del.		July 28
Aug. 5.	Court house, Portland, Ore.		July 28
Aug. 5.	Arch bridge, Springfield, Tenn.		July 28
Aug. 5.	Hospital building, Zumbrota, Minn.		July 28
Aug. 5.	Levee work, Desha county, Ark.		July 28
Aug. 5.	Roadway (2,000 ft.), Ridgway, Pa. Advertised, Engineering News, July 28.		July 28
Aug. 5.	Brick paving, Sedalia, Mo.		Aug. 4
Aug. 5.	Gravel road, Peoria, Ill.		Aug. 4
Aug. 5.	Asphalt paving, Louisville, Ky.		Aug. 4
Aug. 5.	Altering steam dump, New York, N. Y.		Aug. 4
Aug. 5.	Dredging, New York, N. Y.		Aug. 4
Aug. 6.	Asphalt paving, Louisville, Ky.		Aug. 4
Aug. 6.	School building, Watertown, Mass.		Aug. 4
Aug. 6.	Bridge bonds, Brattleboro, Vt.		July 28
Aug. 6.	Ditch, Kenton, O.		July 28
Aug. 6.	Drainage ditch, Arthur, Ill.		July 28
Aug. 6.	Tile and excavating, Champlaign, Ill.		July 28
Aug. 6.	Street work, Mansfield, O.		July 14
Aug. 6.	Dike, York River, Va. Advertised, Eng. News, July 7 to 28.		July 7
Aug. 6.	Bridge work, Olympia, Wash.		July 21
Aug. 6.	Dredging, etc., Virginia. Advertised, Eng. News, July 7 and 14.		July 7
Aug. 8.	Sewers, Toledo, O.		July 21
Aug. 8.	School building, Peterson, Utah.		July 21
Aug. 8.	Street bonds, Lima, O.		July 21
Aug. 8.	Street work, Lafayette, Ind.		July 21
Aug. 8.	Water pipe, etc., Winnipeg, Man. Advertised, Eng. News, June 16 to 30.		June 16
Aug. 8.	Brick paving, Anderson, Ind.		July 14
Aug. 8.	Repairing asphalt, Cincinnati, O.		July 14
Aug. 8.	Bridge, Salem, Mass.		July 28
Aug. 8.	Grading, etc., Salem, Mass.		July 28
Aug. 8.	Asphalt paving, New Orleans, La.		July 28
Aug. 8.	Pipe sewer, Latrobe, Pa.		July 28
Aug. 8.	Pipe sewers, Montclair, N. J.		July 28
Aug. 8.	Plans for high schools, Wilmington, Del.		July 28
Aug. 8.	School bonds, Anaconda, Mont.		July 28
Aug. 8.	Electric plant, New Paynesville, Minn. Advertised, Engineering News, Aug. 4.		Aug. 4
Aug. 8.	Harbor bonds, Montreal, Que.		Aug. 4
Aug. 8.	Bridge masonry, Cardington, Pa.		Aug. 4
Aug. 8.	Light station, New Haven, Conn. Advertised, Engineering News, Aug. 4.		Aug. 4
Aug. 8.	Water-works, New Paynesville, Minn. Advertised, Engineering News, Aug. 4.		Aug. 4
Aug. 8.	Brick paving, Montgomery, Ala.		Aug. 4
Aug. 8.	Macadamizing, etc., Findlay, O.		Aug. 4
Aug. 9.	Grading, Sharpsburg, Pa.		Aug. 4
Aug. 9.	School building, Brookline, Mass.		Aug. 4
Aug. 9.	Draft apparatus, Boston, Mass.		Aug. 4
Aug. 9.	Heating and ventilation, Ogdensburg, N. Y.		Aug. 4
Aug. 9.	Heating, plumbing, etc., Central Islip, N. Y.		Aug. 4
Aug. 9.	Brick paving, Schenectady, N. Y.		July 28
Aug. 9.	Iron bridges (9), Alma, Neb.		July 28
Aug. 9.	Bridge work, Jackson, Miss.		July 28
Aug. 9.	Excavation, Boston, Mass. Advertised, Eng. News, July 28 and Aug. 4.		July 28
Aug. 9.	Pipe laying, Boston, Mass. Advertised, Eng. News, July 28 and Aug. 4.		July 28
Aug. 9.	Street work, Orrville, O.		July 14
Aug. 9.	Torpedo boats, Washington, D. C.		July 7
Aug. 9.	Furniture, Binghamton, N. Y. Advertised, Eng. News, July 21 and 28.		July 21
Aug. 10.	Bridge, Batavia, O.		July 21
Aug. 10.	Iron truss bridge, Cincinnati, O.		July 21
Aug. 10.	Bridge masonry work, Norristown, Pa.		July 14
Aug. 10.	Water-works, Pomeroy, O. Advertised, Engineering News, July 14.		July 14
Aug. 10.	Macadamizing, Cincinnati, O.		July 14
Aug. 10.	Grading, curbing, etc., Spokane, Wash.		July 28
Aug. 10.	Bonds, Newark, N. J.		July 28
Aug. 10.	Sewers, Norfolk, Conn. Advertised, Eng. News, July 28 and Aug. 4.		July 28
Aug. 10.	Electric light plant, Shanghai, China.		July 28
Aug. 10.	Macadam paving, Rockville, Md. Advertised, Engineering News, July 28.		July 28
Aug. 10.	Gymnasium building, Batavia, N. Y.		Aug. 4
Aug. 10.	Asylum building, Versailles, N. Y.		Aug. 4
Aug. 10.	Asphalt paving, etc., Indianapolis, Ind.		Aug. 4
Aug. 10.	Electric light plant, Gaylord, Minn. Advertised, Engineering News, July 21.		Aug. 4
Aug. 10.	Gun forgings, Washington, D. C.		Aug. 4
Aug. 10.	Bridges (6), London, O.		Aug. 4
Aug. 11.	Paving, Ashland, Wis.		Aug. 4
Aug. 11.	Light station, Orient Point, N. Y. Advertised, Engineering News, Aug. 4.		Aug. 4
Aug. 11.	Steel swing bridge, Vancouver, B. C.		Aug. 4
Aug. 11.	Iron or stone bridge, Elizabeth, N. J.		Aug. 4
Aug. 11.	Heating apparatus, Knoxville, Tenn.		Aug. 4
Aug. 11.	Brick paving, curb, etc., Alexandria, Va. Advertised, Eng. News, July 28 and Aug. 4.		July 28
Aug. 11.	School building, Springfield, Mass.		July 28
Aug. 12.	Bridge masonry, Butler, Pa.		July 28
Aug. 12.	Brick paving, Olean, N. Y. Advertised, Engineering News, July 28.		July 28
Aug. 12.	Steam pump, Salem, N. J. Advertised, Eng. News, July 28 and Aug. 4.		July 28
Aug. 12.	Water filter plant, Salem, N. J. Advertised, Eng. News, July 28 and Aug. 4.		July 28
Aug. 12.	Art building addition, Des Moines, Ia.		July 21
Aug. 12.	Electrical conductors, New York, N. Y.		Aug. 4
Aug. 12.	Culvert, Omaha, Neb.		Aug. 4
Aug. 12.	Garbage disposal plant, Milwaukee, Wis.		Aug. 4
Aug. 12.	Bank building, Passaic, N. J.		Aug. 4
Aug. 13.	Clearing, Port Wilson, Wash.		Aug. 4
Aug. 13.	Bridge, Marion, O.		Aug. 4
Aug. 13.	Pipe sewers, Kenton, O.		Aug. 4
Aug. 13.	Bridges (2), Colfax, Wash.		Aug. 4
Aug. 13.	Grading, Zanesville, O.		Aug. 4
Aug. 13.	Pipe sewer, Ashtabula, O. Advertised, Engineering News, July 28.		July 28
Aug. 13.	Brick paving, Chillicothe, O. Advertised, Engineering News, July 28.		July 28
Aug. 13.	Brick paving, Lancaster, O.		July 28
Aug. 15.	Bonds, Poplarville, Miss.		July 28
Aug. 15.	Drainage ditch, Ottawa, Ill.		July 28
Aug. 15.	Paving bonds, Oberlin, O.		July 28
Aug. 15.	Water bonds, Barnesboro, Pa.		July 28
Aug. 15.	Paving, etc., Eremont, O.		July 21
Aug. 15.	Grading, Omaha, Neb.		July 21
Aug. 15.	Exhibition bldg. plans, Glasgow, Scotland		June 2
Aug. 15.	Water pipe, pumping statn, etc.,	Laporte, Ind.	Aug. 4
Aug. 15.	Engine house, etc., Evansville, Ind.		Aug. 4
Aug. 15.	Water-works, Augusta, Wis.		Aug. 4
Aug. 15.	Water tower and tank, San Jose, Cal.		Aug. 4
Aug. 15.	Drainage, Cissna Park, Ill.		Aug. 4
Aug. 15.	Gas lamps, Duluth, Minn.		Aug. 4
Aug. 15.	Coal house, Springfield, O.		Aug. 4
Aug. 15.	Heating apparatus, Petersburg, Va.		Aug. 4
Aug. 15.	Church building, Petrolea, Ont.		Aug. 4
Aug. 15.	Asphalt paving, Buffalo, N. Y.		Aug. 4
Aug. 15.	Grading and draining, Toledo, O.		Aug. 4
Aug. 15.	Macadamizing, Oakland, Cal.		Aug. 4
Aug. 15.	Macadamizing, etc., Fremont, O. Advertised, Engineering News, Aug. 4.		Aug. 4
Aug. 16.	Gas lamps, etc., Superior, Wis.		Aug. 4
Aug. 16.	Bonds, Salt Lake City, Utah.		Aug. 4
Aug. 16.	Steel bridge, Oshkosh, Wis. Advertised, Engineering News, Aug. 4.		Aug. 4
Aug. 16.	Electric light bonds, Springville, N. Y.		Aug. 4
Aug. 16.	Street bonds, Mount Vernon, N. Y.		Aug. 4
Aug. 16.	Brick paving, Coldwater, Mich. Advertised, Engineering News, Aug. 4.		Aug. 4
Aug. 16.	Electric light apparatus, Danville, Ill.		Aug. 4
Aug. 16.	Asphalt paving, New York, N. Y.		Aug. 4
Aug. 16.	Electric lighting, Superior, Wis.		Aug. 4
Aug. 16.	Electric light plant, Minster, O.		July 21
Aug. 16.	Pipe sewer, Oberlin, O.		July 28
Aug. 17.	Bridge substructure, New Haven, Conn. Advertised, Engineering News, Aug. 4.		Aug. 4
Aug. 17.	Sidewalks, St. Bernard, O.		July 28
Aug. 17.	Bridge substructures (2), Cleveland, O.		July 21
Aug. 18.	Water supply, Jersey City, N. J.		July 14
Aug. 18.	Army supplies, Memphis, Tenn. Advertised, Eng. News, July 28 to Aug. 11.		July 28
Aug. 18.	Grading, etc., Defiance, O.		July 28
Aug. 18.	Water-works, Rome, N. Y.		Aug. 4
Aug. 19.	Viaduct substructure, Cleveland, O.		July 28
Aug. 19.	Administration bldg., etc., Stockton, Cal.		July 28
Aug. 19.	Asphalt paving, Cleveland, O.		July 28
Aug. 20.	Bridge, Cincinnati, O.		July 28
Aug. 20.	Dredging, Montgomery, Ala. Advertised, Eng. News, July 28 to Aug. 11.		July 28
Aug. 20.	Paving bonds, Mansfield, O.		July 28
Aug. 20.	Electric lighting, Whitesboro, N. Y. Advertised, Eng. News, July 14 and 21.		July 14
Aug. 20.	Street bonds, Malta, O.		July 21
Aug. 20.	Pumping engines, Lancaster, O.		Aug. 4
Aug. 20.	High school building, Sharonville, O.		Aug. 4
Aug. 20.	Road bonds, Houston, Tex.		Aug. 4
Aug. 22.	Heating and ventilation, Paterson, N. J. Advertised, Eng. News, Aug. 4 and 11.		Aug. 4
Aug. 22.	Bridge (400 ft.), Hamilton, O.		Aug. 4
Aug. 22.	High school building, Columbus, O.		Aug. 4
Aug. 22.	Court house, Charleston, Ill.		Aug. 4
Aug. 22.	School buildings, Ione, Cal.		Aug. 4
Aug. 22.	Electric light plant, Mineral Point, O. Advertised, Eng. News, July 28 to Aug. 11.		July 28
Aug. 22.	Steel substructure, Lebanon, O.		July 28
Aug. 22.	Water-works, Mineral Point, O. Advertised, Eng. News, July 28 to Aug. 11.		July 28
Aug. 23.	School building, Columbus, O.		July 28
Aug. 23.	Water pipe, Coolgardie, West Australia.		June 2
Aug. 23.	Electric light plant, Bunker Hill, Ill.		Aug. 4
Aug. 24.	Water-works improvements, Elyria, O.		Aug. 4
Aug. 24.	Sidewalks, Cambridge City, Ind.		Aug. 4
Aug. 24.	Hire dredging plant, Mobile, Ala. Advertised, Eng. News, July 28 to Aug. 18.		July 28
Aug. 25.	Lighthouse, Baltimore, Md. Advertised, Engineering News, July 28.		July 28
Aug. 25.	Bonds ($80,000), Healdsburg, Cal.		Aug. 4
Aug. 25.	School building, Waldo, O.		Aug. 4
Aug. 26.	Pump engines (2), Minneapolis, Minn. Advertised, Eng. News, July 21 to Aug. 11.		July 21
Aug. 27.	Water pipe, Lakewood, O.		Aug. 4
Aug. 29.	Brick paving, Malta, O.		Aug. 4
Aug. 29.	Brick paving, Canton, O.		Aug. 4
Aug. 29.	Paving, etc., Toledo, O.		Aug. 4
Aug. 29.	Pumping eng. (3,000,000 galls.),	Marietta, O.	July 28
Aug. 30.	Plans for electric traveling crane, Chicago.		July 21
Aug. 30.	Grading, etc., for water-wks, Cincinnati, O.		Aug. 4
Aug. 30.	Dams, etc., Mississippi River, Ill. Advertised, Eng. News, Aug. 4 to 25.		Aug. 4
Aug. 30.	Gravel roads, Indianapolis, Ind.		Aug. 4
Aug. 31.	Dredging, Bridgeport, Conn. Advertised, Eng. News, Aug. 4 to 25.		Aug. 4
Aug. 31.	Custom house, Guayquil, Ecuador.		Apr. 21
Sept. 1.	Battleships (3), Washington, D. C.		June 23
Sept. 1.	Drainage system, Savannah, Ga. Advertised, Eng. News, June 23 to Aug. 25.		June 30
Sept. 1.	Electric light plant, Cullman, Ala.		July 21
Sept. 1.	Water-works, Norwood, N. Y.		July 21
Sept. 1.	Bridges, Johnsonburg, Pa. Advertised, Eng. News, Aug. 4 and 11.		Aug. 4
Sept. 1.	Water-works, Mobile, Ala. Advertised, Eng. News, Aug. 4 to 25.		Aug. 4
Sept. 3.	Sewage pumping station, Boston, Mass. Advertised, Eng. News, July 7 and 14.		July 7
Sept. 5.	Dredging, Waukegan, Ill. Advertised, Eng. News, Aug. 4 and 11.		Aug. 4
Sept. 5.	Bridge, Dillon, Mont.		Aug. 4
Sept. 7.	Bridge, Oroville, Cal.		Aug. 4
Sept. 8.	Bridge, Roseburg, Ore.		Aug. 4
Sept. 12.	Hospital plans, San Francisco, Cal.		Mar. 24
Sept. 13.	Capitol building, Helena, Mont.		July 28
Sept. 15.	Enlarging court house, Lisbon, N. Dak.		July 28
Sept. 19.	Hospital plans, San Francisco, Cal.		Aug. 4
Oct. 1.	Monitors (4), Washington, D. C.		July 7
Oct. 1.	School building (equipment), St. Thomas, Ont.		July 7
Oct. 24.	Markets, etc., Belem, Brazil		Apr. 28
Oct. 30.	School building, Chehalis, Wash.		June 16
Dec. 31.	Plans for station, etc., Stockholm, Sweden.		June 23
No date.	Water franchise, Sumpter, Ore.		Aug. 4
"	Garbage disposal plant, Newport, Ky. Advertised, Engineering News, July 21.		July 21

RAILWAYS.

ALABAMA.—Reports state that the Pioneer Mining & Mfg. Co. has completed the purchase of coal lands near North Birmingham, Ala., and that it will award contracts in about two weeks for the grading of a railway from its furnace plant at Thomas, Ala., to the new mines, about 3½ miles. Surveys have already been made, and it is proposed to build a standard gage line with heavy rail. Messrs. Thomas, of Catasaqua, Pa., are the managers of the company.

ALLEGHENY & WESTERN.—J. M. Floesch, Ch. Engr., Kittanning, Pa., writes us that this company has recently awarded contracts for bridge work along its line to the Pencoyd Bridge Co., of Philadelphia, Pa.; Jutte & Foley, of Pittsburg, Pa.; and the Keystone Bridge Co., of Pittsburg, as more fully described under Bridges.

ATLANTIC COAST LINE.—Surveys are now being made for an extension of this line from Denmark, S. C., to a connection with the Charleston & Western Carolina Ry. It is said that contracts will probably be awarded in September. F. Gardner, Ch. Engr., Wilmington, N. C.

BRANDON & SOUTHWEST.—The contract for the construction of this railway from Brandon to Turtle Mountain, and from Deloraine to Wakida, Manitoba, a distance of about 90 miles, is said to have been awarded to Robert Waddell, Trenton, Ont. The work is to be completed by Nov. 1, 1904.

CALIFORNIA.—Press reports state that work will be resumed next month on the proposed railway to be built from San Diego to the sulphur mines, about 70 miles south of Yuma, Ariz., via Tia Juana, Cal., and Yuma. An entrance will be made into San Diego over the National City & Otay Ry. at Tia Juana. A. J. Booth, of Pittsburg, Pa., is said to be one of the directors. J. A. Dubbs, Gen. Mgr. Mexican Sulphur Co., Pittsburg, Pa., informs us that nothing has yet been done towards building this line except to survey the route from mines to Southern Pacific Ry., near Yuma, 67 miles, and a route from mines to San Diego, 168 miles. It is impossible to tell when construction will begin; nothing further may be done. W. A. Hartt, Ch. Engr., Los Angeles, Cal.

CAPE FEAR & NORTHERN.—J. M. Bandy, Ch. Engr., Greensboro, N. C., informs us that Gibson & Carpenter, Holly Springs, N. C., were awarded the contract July 25 for grading 20 miles of this proposed line from Apex to Blanchards, via Holly Springs, a total distance of 60 miles. Work was to have begun July 27. The right of way has been secured for this first section of 20 miles, and the profile and longitudinal maps completed for the same. Pres., Benjamin Duke, Durham, N. C.

CHICAGO, PEORIA & WESTERN.—This company has been incorporated in Illinois, with a capital stock of $50,000, to build and operate a railway from Chicago through Cook, Will, Grundy, Livingston, Woodford, Tazewell and Peoria counties to Peoria, Ill., thence to Rock Island through the counties of Peoria, Knox, Henry and Rock Island and from Peoria to Rockford through the counties of of Peoria, Marshall, Bureau, Lee, Ogle and Winnebago. The incorporators and first board of directors are, C. H. Matthiesen, S. T. Butler, W. J. German, William Dickinson and C. L. Glass, all of Chicago.

CHINA.—Press reports state that Yung Wing, the Chinese-American, has obtained an extension of time for his concession for the Tien-Tsin-Chin-Kiang Ry., alleging that he has received the support of an English syndicate to supply the necessary capital, £5,000,000. It is also said that Hou Yu Fen, one of the directors general of the Chinese railways, in the face of Russian opposition to the loan, has broken off negotiations with the Hong Kong Bank, which proposed to supply the capital for building an extension of the Tien-Tsin-Shan-Haikwan Ry. to New-Chwang. The latter is distinct from Yung Wing's concession.

CHOCTAW, OKLAHOMA & GULF.—F. A. Molitor, Ch. Engr., South McAlester, Ind. Ter., informs us that this company has completed the location of its line from Shawnee to Stillwater, Okla., a distance of 64 miles. On the eastern extension, from Wister Junction to Howe, on the Kansas City, Pittsburg & Gulf R. R. track has been laid and the road has just been placed in operation. On the western extension track was laid to Geary and the road placed in operation on July 6; this is at a distance of 18 miles from Fort Reno, Okla. Since that time the track has been extended to the South Canadian River at Bridgeport and grading is in progress as far as Weatherford, a distance of 47 miles from Fort Reno, and it is expected that the line will be completed to Weatherford and ready for business on or about Sept. 15.

COLORADO & NORTHWESTERN.—J. S. Frankeberger, Ch. Engr., Boulder, Colo., informs us that this line will not be extended from Ward to Eldorado, Colo., this year. Pres., C. E. Thompson, Boulder, Colo.

DENVER & RIO GRANDE.—Press reports state that Orman, Crook & Co., of Pueblo, Colo., are at work on the proposed extension of this line from Leadville to Ibex, Colo. It is expected to complete the work in 90 days.

EAGLE VALLEY & BAKER CITY.—S. R. Reeves, Pres., La Grande, Ore., informs us that the preliminary survey has been made and the right of way obtained for this proposed line of railway from Baker City to the Seven Devils mining camp, via Sparta and Pine, Ore., a distance of 70 miles. The capital for construction has not yet been secured, and if it be not obtained soon, it is not likely that the road will be built. Mr. Howe, of Baker City, is chief engineer.

ELLAVILLE, WESTLAKE & JENNINGS.—This company is said to be extending its line for a distance of 13 miles. It is now in operation between Ellaville and Johnson, Fla., 20 miles, and the extension is towards Jennings. E. E. West, Pres. and Gen. Mgr., Westlake, Fla.

EMMITSBURG.—It is announced that the directors of the Emmitsburg R. R. Co., which bought the seven miles of road running from Rocky Ridge, where it connects with the Western Maryland R. R., have reorganized and elected the following officers: Pres., James A. Elder; Vice-Pres., William A. Hines, New Oxford, Pa.; Treas., William G. Blair; Secy., Dr. J. B. Brawner; Counsel, Vincent Sebold. In the near future the company contemplates extending the road on to Woodsboro, where it will connect with the Pennsylvania system and give direct communication with Frederick City, Md.

FLAT RIVER VALLEY.—This company was incorporated in Missouri, July 28, with a capital stock of $600,000, to build and operate a standard gage railway from the Mississippi River, in Perry county, opposite Chester, Ill., and through the county of Ste. Genevieve to Farmington, in St. Francis county, and thence to Irondale, on the Iron Mountain R. R., in Washington county, a distance of 60 miles. The incorporators are: C. B. Cole, C. H. Shannon, Edward Whitaker, H. J. Cantwell and Charles Hamilton.

GULF & BRAZOS VALLEY.—Reports state that tracklaying will begin on this proposed line, from Henrietta to Velasco, Tex., 400 miles, in about two months. About 20 miles have been graded and the bridges are being erected. Pres., W. A. Squires, Lakota, Tex.

INDIANOLA COAL & RY.—This company was incorporated in Texas, July 21, with a capital stock of $250,000, by C. H. Alexander, Emmett A. Ellis and R. C. Hawley. The principal place of business will be at Dallas, Tex.

KANSAS, OKLAHOMA CENTRAL & SOUTH WESTERN.—The citizens of Cherryvale and Caney, Kan., voted to issue $20,000 and $10,000 in bonds respectively at a special election July 19, to aid in the construction of this railway, which is being built from Cherryvale, Kan., to Vernon, Tex., a distance of 350 miles. Independence, Kan., was to have a special election Aug. 2 to vote $13,000 in bonds for the same road. Pres., J. H. Bartles, Bartlesville, Ind. Ter.

LEHIGH VALLEY.—This company is said to have made a contract with A. G. Morris & Co., of Tyrone, Pa., for reballasting the entire double-track roadbed from Buffalo to New York with crushed stone; the stone will be quarried at Le Roy, N. Y. C. E. Webster, Ch. Engr., South Bethlehem, Pa.

MINNESOTA, IOWA & GULF.—This company was incorporated in Iowa, June 27, with a capital of $10,000. It is proposed to construct a railway from New Ulm, Minn., to Conception, Mo. The incorporators are, J. J. Bell, A. C. Titus, J. H. Dixon, Frank T. Campbell and Samuel Compton, of Des Moines, Ia.

MORRISTOWN & CUMBERLAND GAP.—We are informed that the survey will soon be started for the proposed extension of this line, from Bristol towards Knoxville, Tenn. This line is a branch of the Knoxville & Bristol Ry., of which B. J. Woodward, of Philadelphia, is president.

MUSCATINE, NORTH & SOUTH.—E. A. Tennis, of Philadelphia, Pa., according to press reports, has been awarded a contract for the construction of 30 miles of railway for this company, from Muscatine to Elrick, via Grandview and Wapello, Ia. The work is expected to cost about $450,000, and is to be completed by Jan. 1, 1899.

NORFOLK & WESTERN.—Reports state that two corps of engineers are now at work surveying a line of railway from the Elkhorn division of the Norfolk & Western, up Dry Fork or Sandy, towards Tazewell, Va., which will develop a large area of the finest coal in all this section, and it is stated that there is no question now of its construction. It is also said that the road will run to within about twelve miles of Tazewell, which will make it an easy matter to connect with the Clinch Valley division of the Norfolk & Western. J. M. Barr, Gen. Mgr., Roanoke, Va.

NORTHERN PACIFIC.—The directors of this company have authorized the construction of an extension of its Rocky Fork branch through Carbon county, from Rockvale, Mont., in a southerly direction up the valley of Clarke's Fork River, 20 miles to the Bridger coal fields, which is to be the other terminus of the road.——Press reports state that a large force of men and teams and the work train of this company are now at the Cedar Creek side track, three miles south of Garfield, Wash., and will begin at once on the work of filling the big trestle across Cedar Creek. This is the largest and highest trestle on the Spokane & Palouse branch, and the contract of filling this with rock and earth will be a large one. It is said the estimated cost of this work is $28,000. Two large stone arches are to be erected, one for the wagon road and the other for the creek, and when this is completed the Spokane & Palouse branch will have nearly a solid roadbed the entire length of the road. Another large trestle south of Cedar Creek was filled last year, but this has settled some and more work will be done on this soon. It is hoped to have the fill at Cedar creek completed before next winter. E. H. McHenry, Ch. Engr., St. Paul, Minn.

PHILADELPHIA & EASTERN.—The charter granted to this company on January 31 was accepted by the incorporators on August 1; capital stock, $250,000. It is proposed to construct a steam railway through Philadelphia and Bucks counties, Pa., to connect with the Philadelphia, Newtown & New York R. R. below Foxchase, a suburb of Philadelphia, to a point on the Delaware River opposite Trenton, N. J., a distance of 20 miles. The incorporators are: Pres., Lamar J. Ridge; John S. Hoffman, J. T. Ridge, M. D.; Albert W. Margerum and Clarence Hampton, all of Philadelphia, Pa.

ST. FRANCOIS VALLEY.—We are informed that this line was to be open for business on Aug. 1, or as soon as the crossing over the St. Louis Southwestern Ry. was put in. The route is from Campbell to Caligoa, Mo., 10 miles. Pres., E. F. Blomeyer; Ch. Engr., Jas. F. Brooks, both of Cape Girardeau, Mo.

SAN FRANCISCO & SAN JOAQUIN VALLEY.—W. B. Storey, Jr., Ch. Engr., 321 Market St., San Francisco, Cal., informs us that this line was opened for operation to Bakerfield, Cal., 235 miles from Stockton, on June 1. The road has been graded from Visalia to Junction, with a line south from Hanford, a distance of 24 miles. Tracklaying has just begun on this piece. Work on the Franklin tunnel is progressing satisfactorily, and grading has been well advanced for six miles on each side of the tunnel. It is also reported from San Francisco that Frank S. Boggs has been awarded a contract for grading two miles of the road on the extension west of Stockton, and that additional grading contracts will soon be let.

ST. LOUIS & OKLAHOMA.—We are informed that 95% of the grading has been completed on this new line from Sapulpa, Ind. Ter., to Oklahoma City, Okla., via Stroud, Chandler and Wellston, 103½ miles. Track has been laid on the 20 miles west of Sapulpa. J. F. Hinckley, Ch. Engr., Sapulpa.

VALLEY CONNECTING.—This company was incorporated in Pennsylvania July 29, with a capital stock of $10,000, to construct one mile of steam railway in Mercer county, Pa. The incorporators are: Pres., Samuel McClure; Charles E. Phillips, Edward W. Budd, all of Sharon, Pa.; Fayette Brown, Cleveland, O.

STREET AND ELECTRIC RAILWAYS.

BENTON, ME.—The railroad commissioners granted a hearing, July 25, at Fairfield, on the application of the Benton & Fairfield Electric R. R., according to report, for a location between Fairfield and this place. E. F. Webb, Atty., Waterville.

FITCHBURG, MASS.—The Gardiner, Westminster & Fitchburg St. Ry. Co. has asked for a change of location for its proposed electric road in this city, according to report.

MILLBURY, MASS.—It is reported that franchises for a new electric railway from Grafton to this place, 10 miles, via North Grafton and Millbury Junction, have been granted, and construction will begin at once.

NEW BEDFORD, MASS.—The New Bedford, Middleboro & Brockton St. Ry. Co. has been granted a franchise to build its line in this city, according to report. Abbott P. Smith, Frederick C. Hinds and L. Le B. Holmes are interested in the company.

NORTON, MASS.—The Norton & Taunton St. Ry. Co. is reported to have been given permission by the railroad commissioners to issue $80,000 in bonds to build a power house and equip its line with electricity.

BUFFALO, N. Y.—The railroad commissioners, July 26, granted permission to the Buffalo Valley R. R. Co. to build an electric railway from Java to this city, 26 miles, according to press reports. The road will pass through Gardenville, Elma, East Elma, Marilla, Porterville, Wales Centre, Wales and Strykersville, and will carry both passengers and freight. Pres., E. E. Felton, Harrisburg, Pa.

CHATHAM, N. Y.—The Nassau Electric Ry. Co. has made application for permission to increase its capital from $600,000 to $1,500,000, and to consolidate with several other companies.

LOCKPORT, N. Y.—Surveys have been commenced for the line of the Buffalo & Lockport Electric Ry., from this city to Olcott, on Lake Ontario, 36 miles, via Tonawanda. Mgr., Burt Van Horn, Jr.

MOUNT VERNON, N. Y.—The Westchester Electric R. R. has filed a certificate of the extensions of its lines on Fulton Ave., from the Hutchinson River to North 4th Ave. and the city line, via 3d St., Franklin Ave., 18th St., 3d Ave. and Prospect Ave.; also from 6th St. and the western city line to 6th St. and the easterly city line, via Columbus Ave., Hawkhurst Lane and Old Boston Post Road.

RYE, N. Y.—It is reported that the Portchester Electric R. R. Co. has been granted a franchise in this town.

MONTCLAIR, N. J.—It is reported that the town council has granted permission to the North Jersey St. Ry. Co. to continue the construction of its electric railway on Valley Road, and to operate its line on Bloomfield Ave.

EASTON, PA.—Groman Bros., Bethlehem, are reported to have the contract for the new power house of the Easton Transit Co., whose electric railway runs from this city to Bethlehem.

EMAUS, PA.—It is reported that Hugh E. Crilly has the contract to build the electric railway from South Allen to this place. About 120 men are at work and it is expected that the road will be completed by Sept. 15.

GERMANTOWN, PA.—It is reported that the Germantown & Fairmount Park Ry. Co. has been organized to build the Falls of Schuylkill and Fairmount Park. Petitions are being circulated requesting the Councils of Germantown, Chestnut Hill and Mount Airy to grant franchises to the company. It is stated that the line when completed will be operated by the Union Traction Co., Philadelphia. The officers of the new company are, Pres., Chas. E. Morgan, Jr.; Secy. and Treas., Wm. Selfridge.

HOKENDAUQUA, PA.—The Hokendauqua & Egypt St. Ry. Co. was incorporated July 29 with a capital stock of $20,000, to construct and operate an electric railway three miles in length. The incorporators are, Pres., John W. Eckert; Directors, John L. Schwartz, Walter J. Saeger, Edwin R. Snyder and Patrick F. Cannon, Allentown, Pa.

PITTSBURG, PA.—It is reported that the Monongahela Traction Co. will lay a complete new line of electric railway from Duquesne to this city, at a cost of about $100,000, and will also pave its line from Braddock to Homestead. L. G. Woods may be addressed.——The Pittsburg & Birmingham Traction Co. is reported to be laying 90-lb. rails and otherwise improving its roadbed from Union Depot to the foot of Castle Shannon incline, at a cost of about $50,000. Pres., Harry Moore; Vice-Pres., A. C. Wettengel; Secy. and Treas., A. S. Petrie.

STROUDSBURG, PA.—The Stroudsburg Passenger Ry. Co. has accepted the ordinance recently granted by the borough council of East Stroudsburg permitting the former to change its motive power to electricity. It is now hoped to obtain similar permission in this place. Pres., Frank Smith.

WILMINGTON, DEL.—The property-owners in Brandywine hundred are disputing in the courts the right of the Front & Union Sts. Ry. Co. to build its electric railway extension from Chester to this city, across their property, according to press reports.

HAGERSTOWN, MD.—The Harrisburg Foundry & Machine Co., Harrisburg, Pa., has been awarded the contract for two 200-HP. engines, and Robt. Wetherill & Co., Chester, Pa., has secured the contract for three vertical boilers, two of 200 HP. and one of 150 HP., for the Hagerstown Electric Ry. Co., according to report. Two condensers, an additional boiler, with feed pump and necessary piping, was also contracted for. The company has purchased ten lots at Summit Ave. and West Lee St. for $5,500, on which, it is stated, the electric light plant of the company will be built.

MYERSVILLE, MD.—Douglas Bros. have the contract for the construction of the Myersville & Catoctin Ry., to run from this place to Middletown. They have finished grading and expect to have the track laying completed by Sept. 15. We are also informed that later the road will be extended to Hagerstown, via South Mountain. Pres., Cyrus F. Flook, Frederick; Ch. Engr., C. McC. Lemley, Myersville.

ROCKVILLE, MD.—H. M. Talbott, Atty., has made application to the county commissioners for a right of way for the Washington & Rockville Electric Ry. Co. over the Georgetown turnpike, from Montrose to this place, according to report.

WASHINGTON, D. C.—The Columbia St. Ry. Co. has obtained nearly all the land required for its eastern extension to Benning, and grading will soon commence. Pres., Nath. Wilson; Secy. and Treas., Theo. J. King.——The Washington & Glen Echo R. R. Co. has applied to the War Department for permission to lay its tracks across a portion of government property near Georgetown. Maj. A. M. Miller, U. S. Engrs., will report on the question.

LYNCHBURG, VA.—The Lynchburg Electric Ry. & Light Co., successor to the Lynchburg Electric Co., has been organized by Randolph Harrison, of this place, and H. G. Runkle, H. D. McDana, W. S. Johnston, R. A. C. Smith, Thos. D. Kent and Isaac Rosenwald, of New York. It is said that over $50,000 will be spent in rehabilitating the street railway property of the old company.

BIRMINGHAM, ALA.—The Birmingham Traction Co. is engaged in transforming its North Birmingham steam dummy line into an electric railway, and hopes to have the work completed by Oct. 1, according to report.

CHAGRIN FALLS, O.—The Cleveland & Chagrin Falls Electric R. R. Co. has begun an extension to its line from this place to Burton, 18 miles, to be known as the Chagrin Falls & Eastern Ry., and will extend the line, it is said, next season to Warren, thus forming a continuous line from Youngstown to Cleveland. Pres., Vincent A. Taylor; Secy., C. F. Lowe; Treas., Wm. Prescott.

CONNEAUT, O.—It is reported that the Pennsylvania & Ohio St. Ry. Co. has applied for a franchise in this place.

LANCASTER, O.—The Fairfield Traction Co. has been incorporated with $100,000 capital, by H. B. Peters and Wm. Davidson, to build an electric railway in this city.

SANDUSKY, O.—The Sandusky & Interurban Electric Ry. Co. has been incorporated with $500,000 capital by Harry A. Everett, E. W. Moore, Barney Mahler, Chas. H. Stewart and Wm. H. Price, who were reported in our issue of July 21 to have bought the Sandusky Electric St. Ry. The company will build an extension to the latter road to Lorain, via Huron and Vermillion.

ANDERSON, IND.—S. C. Parkhurst, of the Chicago & Southeastern Ry. of Indiana, is reported to be interested in the construction of an electric railway from this city to Jacksonton, 22 miles, via Eaton, Middletown, Winchester and West Eckton.

MONTICELLO, IND.—The Tippecanoe Electric R. R. Co. has been incorporated with $50,000 capital, by Chas. C. Spencer, Emory B. Sellers, Louis G. Gustovel, Clinton L. Bader and Henry Van Voorst, to build a road from this place to Covington, 110 miles, via Fowler. Address Chas. C. Spencer for particulars.

DURAND, MICH.—It is stated that application will be made in a few days for a franchise to build an electric railway from Coranna to this place, via Vernon.

GRAND RAPIDS, MICH.—The council has under consideration a new franchise for the Consolidated St. Ry. Co. to which there is much opposition from the citizens. Pres. and Gen. Mgr., G. S. Johnson.

HOUGHTON, MICH.—It is reported that T. W. Taylor has asked the council for a franchise to build a street railway in this place.

KALAMAZOO, MICH.—It is stated that the Michigan Traction Co. will build its projected line to Battle Creek, noted in our last issue, next spring. The city council has passed a resolution requiring the company to substitute a seven-inch standard girder rail of not less than 90-lbs. weight for the rail now in use between Portage St. and the Grand Rapids & Indiana Ry. crossing. Ch. Engr., Geo. S. Shafer, Philadelphia.

PLYMOUTH, MICH.—A press report states that the Detroit, Plymouth & Northville Ry. Co. has given a mortgage to the Union Trust Co. to secure an issue of $375,000 in bonds, for the purpose of constructing an electric railway over the tracks of the Detroit, Ypsilanti & Ann Arbor Ry. Pres., C. W. Casgrain; Secy., Henry F. Wickham; Treas., John A. Russell.

SAGINAW, MICH.—Pres. Isaac Bearinger, of the Interurban Ry. of this city, has been granted a franchise to build an electric railway on Davenport St., from Michigan Ave. to the bridge.——Operations on the Saginaw Suburban Ry., which is projected from this city to Flint, have been resumed, according to report. The contract to construct the road has been given to a company in Chicago. Secy. Swarthout may be addressed.

WAUKESHA, WIS.—Wm. Powrie, C. E., writes us that the Milwaukee-Waukesha Electric Ry., since its opening, June 25, has been doing a large and constantly increasing business; the running time has been reduced to one hour between the two cities. The road has cut into the passenger business of the steam roads so much that they are now selling 10-ride tickets at 25 cents a ride, the old rate being 60 cents each way. The rate on the electric railway is 50 cents for the round trip, with transfer in Milwaukee to any part of the city. The cars are equipped with air brakes, whistles and electric headlights which show up the track for two miles. The road will be extended to Oconomowoc in a short time.

DES MOINES, IA.—It is expected that the Des Moines City Ry. Co. will have its extension to Valley Junction in operation by Sept. 15. Pres., J. S. Polk; Supt., W. G. Owens.

LAWRENCE, KAN.—A meeting of business men of this city was held July 26, at the Commercial Club, in the interest of a proposed electric street railway in this place, according to report.

LEAVENWORTH, KAN.—The Kansas City & Leavenworth Traction Co. is reported to have accepted the franchise recently granted by the county commissioners for an electric railway between Kansas City, Kan., and this place. Pres., H. G. Pert; Secy., C. H. Chapin.

HOT SPRINGS, ARK.—D. S. Ryan, 414 Central Ave., informs us that the new power plant of the Ouachita Water Power Co. is to furnish the necessary power for the operation of the street cars in this city and for the line running to the lake, 4½ miles from the city. It will also supply power to the railway between Hot Springs and Malvern, 22 miles, or to Benton, Ark., 33 miles. The company has a free right of way for the projected railway to the lake and the promise of a franchise to operate the same through the city. Estimated cost of entire plant, $250,000. Further information may be found under Electric Light and Power.

DALLAS, TEX.—The Dallas Consolidated Electric St. Ry. Co. has completed financial arrangements to secure $800,000 to be used for the improvement of the line, according to report.

DENVER, COLO.—The board of aldermen has granted a franchise over the mayor's veto to the Colfax Electric Ry. permitting it to extend its line to Montclair, a suburb of this city.

PASADENA, CAL.—A new 650-HP. Ball & Wood engine and a Westinghouse multiple dynamo are being installed in the new power house of the Pasadena & Los Angeles Electric Ry., in this city. About $12,000 worth of new copper wire has also been recently put in place. The improvement will cost over $50,000. Pres., P. M. Green.

MEXICO, MEX.—The Riter-Conley Co., Pittsburg, is reported to have the contract for the erection of a 55 × 78-ft. boiler house, a 51 × 78-ft. engine house, and a 75 × 78-ft. coal storage sheds for the City of Mexico Tramways. The Babcock & Wilcox Co., New York, has received the contract to furnish 2,000-HP. of Glasgow boilers, and McIntosh, Seymour & Co., Auburn, have the contract for the engines. A 25-ton traveling crane will be required, according to report.

ELECTRIC LIGHT AND POWER.

HANOVER, N. H.—Lamb & Rich, Archs., have prepared plans for a power plant for Dartmouth College which call for a brick and steel building 157 × 57 ft. and a brick stack.

LOWVILLE, N. Y.—The village board has granted a franchise for lighting the town to Lafayette Wetmore. A plant to cost about $40,000 will be built at Belfort, on the Beaver River. It is proposed to furnish light and power to other places. A company will probably be organized soon. The power house will be 35 × 50 ft., the dam about 200 ft. long, etc. There will be two 30-in. wheels and two 660-HP. dynamos, etc. Bids are now being received for the work, according to reports.

NEW YORK, N. Y.—Bids are asked until Aug. 12 for furnishing the police department with electrical conductors. Wm. H. Kipp, Ch. Clk., 300 Mulberry St.

SPRINGVILLE, N. Y.—Bids are asked until Aug. 16 for the purchase of $4,850 4% 5–30-year electric light bonds. Watt Smith, Village Clk.

SEA ISLE CITY, N. J.—Walter Sexton, Pemberton, N. J., is reported as making arrangements for the immediate construction of the proposed plant, for which a franchise was recently granted.

GREENCASTLE, PA.—Geo. F. Blosser has been granted a franchise for a plant in this town.

WINCHESTER, VA.—Press reports state that the proposed plant for this place, recently voted for by the town, will have 70 2,000-c. p. arc lights.

FITZGERALD, GA.—C. C. Goodnow, Mayor, writes us that the following bids were received July 18 for furnishing the materials and for constructing a plant and waterworks:

J. H. Harris, Fitzgerald, Ga.	$28,900
Consolidated Engineering Co., New Orleans	27,925
Moore & McCoy, Atlanta (accepted)	26,672

JACKSON, GA.—The question of building a plant and water-works is being considered, according to reports. M. L. Hendrick may be addressed.

MOULTRIE, GA.—At the election in July this place voted to issue bonds for a municipal plant and for completing the water-works.

ELLISVILLE, MISS.—The council is reported as considering a proposition to grant a franchise for a plant.

OXFORD, MISS.—Jno. F. Brown, Mayor, writes us that at the election held July 26 this place voted against building a plant and sewerage system. It is only a question of time when the town will have the improvements, however.

KOKOMO, IND.—The plant of the Citizens' Electric Light Co. was destroyed by an explosion and fire July 28, according to reports.

PORTLAND, IND.—It is reported that a fire at this place caused $3,000 damage to the city plant. Supt., O. N. Eller.

BAY CITY, MICH.—Bids are asked by the city clerk until Aug. 15 for furnishing a new dynamo for the city light plant.

BELLAIRE, MICH.—Edward Suffern, Village Clk., writes us that on June 20 this place voted to build a plant to cost $8,000. About $5,000 in bonds will be issued, $2,000 of which will be used for a woodenware factory, the balance for an electric light plant. It is not likely that anything in regard to securing the plant will be done this year.

JONESVILLE, MICH.—The council is reported as considering the question of building a plant and water-works.

BUNKER HILL, ILL.—Bids are asked until about Aug. 23 for furnishing and constructing a plant, according to reports. Engr., Owen Ford, Security Bldg., St. Louis, Mo.

DANVILLE, ILL.—Bids are asked by the board of trustees of the National Home for Disabled Volunteer Soldiers until Aug. 16 for furnishing and installing lighting apparatus, etc., in certain buildings here.

SUPERIOR, WIS.—Bids are asked until Aug. 16 for lighting the streets with 50 to 200 1,200 or 2,000-c. p. arc lights for one to three years, also for gasoline lighting, etc. F. J. Seguin, Cy. Clk.

GAYLORD, MINN.—Bids are asked until Aug. 10 for furnishing and constructing a plant, as advertised in Engineering News July 21. (Postponement from July 28.) C. W. Clasen, Village Recdr.; F. Mansfield, Mayor.

NEW PAYNESVILLE, MINN.—Bids are asked until Aug. 8 for furnishing and constructing a plant and waterworks, as stated in our advertising columns. M. S. Elliott, Recdr.; Fairbanks, Morse & Co., Engrs., St. Paul, Minn.

WINNEBAGO CITY, MINN.—The council is reported as making arrangements for the immediate construction of the proposed plant, for which $8,000 in bonds were voted July 2.

AURORA, NEB.—O. H. Kilbourne, Osceola, Neb., writes us that he has purchased all the machinery for the proposed plant, to cost $6,000.

HASTINGS, NEB.—Bids are asked by the city clerk for lighting the streets with electricity. The council has appropriated $3,000 for this year's lighting.

LIVINGSTON, MONT.—The electric light plant of the Livingston Electric Light Co. was destroyed by fire July 24. The loss was $32,000, more than half covered by insurance. A temporary service will be established. Pres., J. R. King.

HOT SPRINGS, ARK.—D. S. Ryan, 414 Central Ave., Hot Springs, writes us as follows with regard to the proposed power plant for the Ouachita Water Power Co.: The plant is intended to supply lights and power for entire city, including 100 hotels, to operate street cars in this city and to the lake, the latter 4½ miles from city. It is to operate railway from Hot Springs to Malvern, 22 miles, or to Benton, 33 miles. To supply lights and power for Pyrites mines, 2½ miles west, and for Silver mine, 28 miles west. Cross-sections and soundings made and levels over several miles above dam site. Capital desired, any reasonable arrangements. Examinations made by engineers of Jas. Leffel & Co., Springfield, O.; by chief engineer National Co., and the surveys, soundings and cross-sectioning with original surveys and measurements by Edw. Ruger, of Janesville, Wis., and under his directions. The plant will have a capacity for 180 arc and 10,000 16-c. p. incandescent lights; estimated cost, $250,000. Des. Engr., Geo. M. French, Hot Springs.

LITTLE ROCK, ARK.—Geo. G. Harkness, Secy. Bd. of Trade, writes us that preliminary surveys have been started for a dam and turbine wheels on the Ouachita River, near Rockyford, Ark. The dam will be about 700 ft. long. It is proposed to generate electricity and transmit it to Little Rock, a distance of 45 miles. Geo. C. Strong, Little Rock, may be addressed.

SHERMAN, TEX.—C. P. Gregory, Chn. St. Com., writes us that the council is contemplating putting in a new dynamo for the plant. M. H. Andrews may be addressed.

SEATTLE, WASH.—Local papers state that Chas. H. Baker, Pres. Snoqualmie Falls Power Co., left this city July 26 for eastern cities to arrange for the purchase of machinery for the proposed plant; estimated cost, $250,000. Wm. H. Baker, ex-Pres. Chicago Board of Trade, Chicago, Ill., may be addressed.

SANTA CRUZ, CAL.—Press reports state that a contract was signed July 22 for furnishing 150 HP. by the Big Creek Water Power Co. for the operation of the machinery at the powder works. It is expected soon to increase this to 450 HP.

TUSCARORA, NEV.—The Dexter Mining Co., it is reported, is making preparations to put in a plant. Surveys have been made and the company has advertised for bids to furnish the necessary poles for the electric line. When the plant is completed the company will have 195 HP., instead of 85, as at present. Gen. Mgr., S. B. Milner; Pres., John Dern.

HAMILTON, ONT.—The council is considering the question of engaging either J. Roderick Parks, Toronto, Ont., or Percy Domville, Hamilton, to prepare estimates, etc., for a municipal plant.

SHERBROOKE, QUE.—Press reports state that the Eastern Townships Light, Power & Carbide Co., formed recently, has decided to purchase the electric plant at North Hatley formerly owned by Edgar & Roy. The reason for forming a joint stock company is to meet the demand for electric light and power from other than the villages of Waterville, Hatley, Eustis and Compton, which were supplied by Edgar & Roy. The capital stock of the company is $50,000, but only half of this has been offered to the public, and has been about all taken up. Pres., A. J. Gordon, North Hatley; Secy. and Treas., O. E. Roy, Montreal.

MONTEREY, MEX.—It is stated that E. Dysterum, Supt. Compania de Luz Electrica y Fuerza Motriz, of Monterey, Mex., is visiting electrical plants and manufacturing establishments in New York. The company is extending its business, particularly in the way of power transmission.

EDINBURGH, SCOTLAND.—Press reports state that the electric lighting committee of Edinburgh is making additions to the plant, and several American manufacturers, who are represented in England or Scotland, will be the recipients of contracts in connection with the work. It is understood that the Babcock & Wilcox Boiler Co. has already received an order for nearly $15,000 worth of material, and that the General Electric Co. has also secured a contract.

NEW COMPANIES.—Jaques Cartier Water Power Co., 243 Washington St., Jersey City; $500,000, with $1,000 paid in; to operate in Canada; Russell H. Lansdole, Ernest W. Cooke, 243 Washington St., Jersey City.

Spartanburg Gas, Electric Light & Street Ry. Co., Spartanburg, S. C.; $200,000; Elliot Norton, William E. Lown, George G. Day, Albert Leszynsky, all of New York.

BRIDGES.

NEW HAVEN, CONN.—Bids are asked until Aug. 17 for constructing the substructure, retaining walls and approaches for the new Chapel St. draw bridge, across Mill River, as stated in our advertising columns. C. W. Kelly, Cy. Engr., 17 City Hall.

ELIZABETH, N. J.—Bids are asked until Aug. 11 for constructing a 2-span bridge of iron or stone at Bridge St. Louis Quien, Engr.

ALLEGHENY, PA.—The Fort Pitt Bridge Works, Canonsburg, has been awarded a contract at $30,000 for constructing a 400-ft. bridge, having a center span of 175 ft., over Wood's Run, at Davis Ave. Gustave Kaufman, Engr., Pittsburg.

CARDINGTON, PA.—Bids are asked until Aug. 8 for the masonry work for two bridges over Naylor's Run. Wm. P. Hipple, Chn. County Comrs., Media.

EASTON, PA.—Bids are asked until Aug. 4 for constructing an iron bridge on Peach St., according to reports. H. R. Fehr, Cy. Engr.

JOHNSONBURG, PA.—Bids are asked until Sept. 1 for constructing one or two iron or steel bridges on Center St., as stated in our advertising columns. H. Little & Sons, Engrs., Ridgway, Pa.

KITTANNING, PA.—J. M. Floesch, Ch. Engr., writes us that the following contracts have recently been let by the Allegheny & Western Ry. Co.: All the steel bridge work between Lindsey and the Allegheny River, a distance of 33 miles, to the Pencoyd Bridge Co., Philadelphia. This work includes two crossings of Mahoning Creek and one steel viaduct 830 ft. long and 60 ft. high over Big Mahoning Creek, near Dayton, and one 1,025 ft. long and 150 ft. high over Little Mahoning Creek, near Dayton; also numerous smaller spans over highways and streams. The substructure for the bridge over the Allegheny River at Mosgrove has been let to Jutte & Foley, Pittsburg. The superstructure for the Allegheny River bridge has been let to the Keystone Bridge Co., Pittsburg, and consists of a channel span 450 ft. long, two spans 300 ft., one span 240 ft. and a steel viaduct 400 ft. in length. The bridge is to be a deck truss with a clear height 60 ft. above low water. The steel superstructure of the bridges between the Allegheny River and Butler has also been let to the Keystone Bridge Co., Pittsburg. This work consists of two steel viaducts 400 ft. long and several smaller span bridges.

ANNAPOLIS, MD.—A contract has been awarded to W. T. Douglas, Baltimore, at $16,594, for constructing the bridge over Curtis Bay. A. K. Starlings, County Clk.

NEWPORT NEWS, VA.—Geo. Y. Alsop, Cy. Engr., has submitted plans for two steel bridges, at 24th and 25th Sts., each to be 550 ft. long.

CARTHAGE, O.—The following bids were received by the county commissioners July 27 for constructing a bridge over Mill Creek, near this place:

Youngstown Bridge Co., Youngstown, O.	$38,950
Cincinnati Bridge Co., Cincinnati, O.	36,000
Wrought Iron Bridge Co., Canton, O.	42,000
King Bridge Co., Cleveland, O.	38,000
Brackett Bridge Co., Cincinnati, O.	32,500
Toledo Bridge Co., Toledo, O.	39,900
Lafayette Bridge Co., Lafayette, O.	37,000
Champion Bridge Co., Wilmington, Del.	35,995
Oregonia Bridge Co., Cincinnati.	39,600
Massillon Bridge Co., Massillon, O.	36,500
Penn Bridge Co., Beaver Falls, Pa.	37,165

CHILLICOTHE, O.—Willard & Cornwell, Louisville, Ky., have been awarded the contract for building a $20,000 iron bridge.

HAMILTON, O.—Bids are asked until Aug. 22 for constructing a 400-ft. bridge over the Miami River at Wood St.; estimated cost, $79,000. L. A. Dillon, County Engr.

MARION, O.—Bids are asked until Aug. 13 for a 130-ft. iron superstructure over Whitestone Creek, capacity 100 lbs. per sq. ft. U. K. Guthberg, County Audr.

LONDON, O.—Bids are asked until Aug. 10 for constructing six bridges, according to reports. W. D. Wilson, County Audr.

YOUNGSTOWN, O.—A contract was awarded to the Youngstown Bridge Co., on July 25, at $78,000, for constructing the South Ave. bridge.—F. M. Lillie, Cy. Engr., informs us that a petition has been circulated for the construction of a bridge across the Mahoning River, near the Ohio Steel Works.

GRAND RAPIDS, MICH.—Geo. M. Ames, Cy. Engr., informs us that a proposition has been suggested to construct a bridge at Lyon St., for the street railway company.

OWOSSO, MICH.—The Groton Bridge & Mfg. Co., Groton, N. Y., has been awarded a contract at $10,375 for constructing the bridge across West Main St.

CHICAGO, ILL.—The following bids were received June 25 for constructing a railway bridge at Campbell Ave., advertised in Engineering News. Jas. Reddick, Clk.:

	Excluding operation.	Including operation.
C. L. Strobel, Chicago, Ill	$235,425	$337,425
Edgemoor Bdg. Wks., Wilmington, Del.	286,195	371,195
Scherzer Rolling Lift Bdg. Co., Chicago.	369,140	510,880
King Bridge Co., Cleveland, O*.	373,000	454,020
J. G. Wagner Co., Milwaukee, Wis.	366,750	416,750

*Waddell arch, tubular piers. Waddell cantilever, $420,020, $505,020; Waddell arch, $395,710; $476,710, respectively.

OSHKOSH, WIS.—Bids are asked until Aug. 16 for furnishing the material and for constructing a steel bridge across Sawyer Creek, as described in our advertising columns. Oscar Sanne, Engr., Colby & Abbot Bldg., Milwaukee, Wis.; Casper Fluor, Chn. Bd. Pub. Wks.

FLEMING, KAN.—Reports state that arrangements are being made for the construction of a bridge between Sheridan and Baker townships, near this place. Address John Oertle, Township Trustee.

DILLON, MONT.—Bids are asked until Sept. 5 for constructing a 60-ft. Howe truss bridge, on Big Hole River. E. H. Mayers, Clk.

COLFAX, WASH.—Bids are asked until Aug. 13 for furnishing the material and for constructing two bridges. John Tobin, County Audr.

ROSEBURG, ORE.—Bids are asked until Sept. 8 for constructing a bridge over Elk Creek. J. Lyons, County Judge.

LOS ANGELES, CAL.—Sawyer & McArthur have been awarded a contract, at $23,000, for constructing the 600-ft. bridge across the Santa Fe River, for the Los Angeles Traction Co. W. S. Hook, Mgr.

OROVILLE, CAL.—Bids are asked until Sept. 7 for constructing a bridge over Powell Creek. Address Supervisor Cass.

VANCOUVER, B. C.—Bids are asked until Aug. 11 for constructing a steel swing for the Granville St. bridge. Thos. F. McGuigan, Cy. Clk.

BUILDINGS.

HALLOWELL, ME.—William Wiley, Gardiner, Me., has been awarded the contract for installing a hot-water heating apparatus in the new industrial school building, at $933. The contract for plumbing was awarded to John B. Smith & Co., of Lewiston, at $496.—It is said that the Hallowell Granite Co. has received the contract to erect the new city hall building in this city, to cost about $20,000.

BARRE, VT.—Reports state that the contract for erecting the new city hall building has been let to Mason & Co., Concord, N. H., at $36,000.

BOSTON, MASS.—Bids are asked by the Boston City Hospital, Harrison Ave., until Aug. 9, for the installation of a mechanical draft apparatus in connection with the power plant, boiler house, at the City Hospital on Albany St.; also for three new boilers, etc. Pres., A. Shuman.

BROOKLINE, MASS.—Bids are asked until Aug. 9 for the erection of a grammar school building on Harvard St. Jas. R. Dunbar, Chn. School Com., Town Hall; Loring & Phipps, Archs., Exchange Bldg., Boston, Mass.

WATERTOWN, MASS.—Bids are asked until Aug. 6 for erecting an 8-story school building in this city. Edward F. Porter, Chn. Bldg. Com.

NEW HAVEN, CONN.—Bids are asked until Aug. 8 for erecting the New Haven Harbor breakwater light station, as stated in our advertising columns. The plans and specifications for this work are on file in the office of Engineering News, St. Paul Bldg., New York. Lt.-Col. D. P. Heap, U. S. Engr., Tompkinsville, S. I., N. Y.

BATAVIA, N. Y.—Bids are asked until Aug. 10 for erecting a gymnasium building for the State School for the Blind. Lee R. Sanborn, Pres. Bd. of Mgrs.

CENTRAL ISLIP (L. I.), N. Y.—Bids are asked by the Manhattan State Hospital, 1 Madison Ave., New York, until Aug. 9, for furnishing the materials and performing the labor required for the erection and finishing; warming and hot-water supply; plumbing and drainage, and the electric wiring and fixtures of extensions to the dining-room building of group D, at Central Islip. Geo. E. Dodge, Secy. Bd. of Mgrs.; I. G. Perry, State Arch., Albany, N. Y.

DEPEW, N. Y.—The Depew Improvement Co. will build a 5-story brick hotel to cost $40,000, and a 3-story brick business block to cost $10,000. Arch., George Palliser, 32 Park Place, New York.

NEW YORK, N. Y.—Plans have been filed by Polstein & Feinberg, 200 Henry St., for three 6-story brick flat and store buildings at 209 and 213 Eldridge St., to cost $75,000. Arch., Michael Bernstein, 145 Centre St.; by Harris Fine and David Kidansky, for three 6-story brick tenement and store buildings at 244 to 248 Broome St., to cost $70,000. Archs., Horenburger & Straub, 123 Bowery; by Ablemann & Rosenbaum, 1804 Madison Ave., for eight 4-story brick flat buildings on St. Ann's Ave., from 157th to 158th Sts., to cost $140,000. Arch., Michael Bernstein, 145 Centre St.; by Frank Harly and others, for a 3-story brick department store building at 126th St. and 3d Ave., to cost $60,000. Archs., Cleverdon & Putzel, 13 Astor Place; by Brensky & Goldstein, 1703 Lexington Ave., for three 5-story brick tenement buildings on 101st St., near Park Ave., to cost $66,000. Arch., Sol. D. Cohen, 203 Broadway.

OGDENSBURG, N. Y.—Bids are asked by the supervising architect, Washington, D. C., until Aug. 9, for the removal of the old heating and ventilating apparatus and installation of a new system in the U. S. building in this city.

ORIENT POINT, N. Y.—Bids are asked until Aug. 11 for furnishing the material and for erecting the Orient Point light station N. Y., as stated in our advertising columns. The plans and specifications are on file in the office of Engineering News, St. Paul Bldg., New York. Lt.-Col. D. P. Heap, U. S. Engr., Tompkinsville, N. Y.

ROME, N. Y.—Andrew Douglass, of Binghamton, N. Y., has been awarded the contract for the construction of a number of buildings for the Rome State Custodial Asylum, at $66,004.

TROY, N. Y.—Contracts for the extension to the Troy Times Building have been awarded to Chas. P. Boland, for mason work, and to E. W. Martin & Son for the carpentry work; estimated cost, $30,000.—The school board of Troy is to have a special meeting to adopt plans by M. F. Cummings & Son for a new high school building to be erected on 5th St., at a cost of $150,000.

ELLIS ISLAND, N.Y.H.—The following bids were received by the supervising architect, Washington, D. C., July 30, for the masonry, carpentry and structural iron work required in the construction of the main buildings of the U. S. immigrant station on Ellis Island, in New York Harbor; Archs., Boring & Tilton, 32 Broadway, N. Y.:

Bidders.	Totals.	Mason work, etc.	Carpentry work, etc.	Iron work, etc.	Time.
Brown, Ketchum & Co., Indianapolis, Ind	.....	.....	.....	$84,400	....
Jas. C. McGuire, New York	.....	.....	.....	74,900	8 mos.
Post & McCord, New York	.....	.....	.....	77,950	6 "
James Baker Smith, New York	$571,542	$398,371	$80,194	82,977	11 "
T. B. Updyke, Philadelphia, Pa.	.....	.....	.....	86,400	11 "
D. H. Hayes, Chicago, Ill.	.....	345,337	83,533	.....	12 "
Hopper & O'Rourke, New York	573,000	393,000	100,000	80,000	8 "
N. J. Steel & Iron Co., New York	.....	.....	.....	85,600	4 "
Martin Walsh, Brooklyn, N. Y.	551,700	376,700	100,000	75,000	12 "
Eugene Lentilhorn, New York	567,400	402,235	85,420	80,745	300 days
Mapes-Reeves Cons. Co., New York	.....	425,000	.....	.....	8 mos.
Jno. H. Parker & Co., New York	.....	380,639	.....	.....	11½ "
P. J. Carlin & Co., Brooklyn, N. Y.	519,000	339,000	98,103	81,897	1 year
L. L. Leach & Son, Chicago, Ill.	487,788	370,493	55,915	79,973	12 mos.
Geo. G. Fuller & Co., Chicago, Ill.	503,000	.....	.....	.....	12 "
Jos. J. Churchyard, Buffalo, N. Y.	568,560	388,291	110,000	83,000	12 "
R. H. Hood & Co., New York	473,975	.....	.....	.....	....
McIlvain, Unkefer & Co., New York	524,300	358,000	83,000	83,300	12 mos.
Hugh Getty, New York	509,446	.....	.....	.....	350 days.
Jno. F. Johnson, New York	.....	434,673	.....	.....	12 mos.
Thos. Marshall, Pittsburg, Pa.	.....	.....	.....	94,080	April, '99
Bradley & Currier Co., New York	.....	.....	119,988	.....	....
Prescott, Buckley & Callivan, Albany, N. Y.	639,000	440,254	117,000	82,000	12 mos.
Levering & Garrigues, New York	.....	.....	.....	88,740	9 "
Norcross Bros., New York	585,739	411,984	90,525	83,230	12 "
Jno. L. Hamilton & Sons, New York	.....	.....	136,377	.....	6 "

VERSAILLES, N. Y.—Bids are asked until Aug. 10 for erecting a dining hall for the Thomas Asylum for Orphan and Destitute Indian Children, near Versailles. Henry R. Howland, Pres. Bd. Mgrs., 367 7th St., Buffalo, N. Y.

JERSEY CITY, N. J.—The trustees of the new library building to be erected on Jersey Ave., from Montgomery to Mercer St., at a cost of about $120,000, have adopted the plans of Brite & Bacon, Constable Bldg., 111 5th Ave., New York.

NEWARK, N. J.—V. J. Hedden & Sons, 143 Liberty St., New York, are said to have been awarded the contract for erecting the new bank building for the Howard Savings Institution, at 766 Broad St. Arch., Geo. B. Post, 33 East 17th St., New York.

PASSAIC, N. J.—Bids are asked until Aug. 12 for erecting a 6-story brick and stone bank and office building for the People's Bank & Trust Co. Arch., Fred. W. Wentworth, National Bank Bldg., Paterson, N. J.

PATERSON, N. J.—Bids are asked until Aug. 22 for furnishing and installing a steam heating and ventilating apparatus for the post-office building, as stated in our advertising columns. Jos. Knox Taylor, Supervising Arch., Washington, D. C.

CARNEGIE, PA.—The contract for the erection of a new high school at this place has been awarded to Charles Rife & Bros., of Allegheny, at about $30,000.

PITTSBURG, PA.—The barns of the Consolidated Traction Co. at Frankstown and Penn Aves. were destroyed by fire July 24, causing a reported loss of $150,000. The building was valued at $125,000, and the 36 cars contained therein at $55,000. Pres., C. L. Magee.——W. H. Skivington has purchased 410 ft. of property on Highland Ave. for $90,000, on which he will erect brick and stone residences.

RANKIN, PA.—The Monongahela St. Ry. Co. has placed the order for a new street car barn at Rankin. The building will be 120 × 230 ft., and was designed by Wilkins & Lavison, Engrs., Westinghouse Bldg., Pittsburg.

BALTIMORE, MD.—The Consolidated Ry. Co. has made application for a permit to build large car sheds on the Frederick turnpike, near Irving Ave., to replace the barn burned several months ago. The building is to be of brick and iron, 1½ stories high, and will cost about $60,000 and accommodate 250 cars. John Hiltz is the builder and Baldwin & Pennington the architects. Work will begin at once.

WASHINGTON, D. C.—The following bids have been received by the supervising architect for repairs to heating and power plants, etc., of the U. S. Treasury, the Winder and the Marine Hospital (Butler) Buildings, in this city:

		Time.
G. A. Suter & Co., New York	$5,758	40 days
Bromwell, Schmidt & Co., York, Pa.	3,453	Sept. 1
Edw. P. Bates, Albany, N. Y.	9,833	30 days
Blake & Williams, New York	2,912	Sept. 1
Wallace & Stebbins, Baltimore, Md.	2,822	Sept. 1
Zellers & Co., Washington, D. C.	2,899	30 days
E. Keeler & Co., Williamsport, Pa.	2,780	45 days
Phila. Lt. H. Co., Philadelphia, Pa.	2,319	....

PETERSBURG, VA.—Bids are asked by the supervising architect, Washington, D. C., until Aug. 15, for a new heating apparatus for the U. S. building in this city.

KNOXVILLE, TENN.—Bids are asked by the supervising architect, Washington, D. C., until Aug. 11, for removing and constructing new heating apparatus for the U. S. building in Knoxville.

AKRON, O.—J. W. Myers & Co., Ashland, O., have been awarded the contract for the construction (except heating apparatus and electric wire conduits) of the post office building. The other bids were published in our issue of July 21.

COLUMBUS, O.—Bids are asked until Aug. 22 for the excavation and foundations of the South Side high school building; also for heating and ventilating said building by the hot air system. Arch., David E. Riebel; Chn., C. E. Morris.

SHARONVILLE, O.—Bids are asked until Aug. 20 for the erection of a new high school building. F. S. Mossteller, Pres. Bd. Education; Charles Crapsey, Arch., Race and 7th Sts., Cincinnati, O.

SPRINGFIELD, O.—Bids are asked by the water-works board, until Aug. 15, for the construction of a new brick coal house, 16 × 70 ft., after plans by Chas. E. Dowley & Bro.

WALDO, O.—Bids are asked by the board of education until Aug. 25 for the erection of a 3-room brick school building at this place. Clk., J. H. Winsor; Archs., Sloan & Ault, Marion, O.

INDIANAPOLIS, IND.—Preliminary plans have been completed, according to reports, for the 11-story Law Building to be erected on East Market St.

ESCANABA, MICH.—A fire in this city July 31 damaged the Escanaba Bank Bldg. and other buildings, causing a reported loss of $200,000.

CHARLESTON, ILL.—Bids are asked by the county supervisors until Aug. 22 for the erection of a new court house to cost about $100,000. Arch., C. W. Rapp, 1307—100 Washington St., Chicago.

CHICAGO, ILL.—Press reports state that plans have been perfected for the construction of a new amusement and convention hall, 600 × 348 ft., on the property formerly used by the Chicago Baseball Club, on the West Side.——Plans have been prepared for an apartment hotel to be erected at North State and Rush Sts. and Bellevue Place for a stock company. W. F. Mayhon & Co., Chamber of Commerce Bldg., Chicago, are said to represent the company. The structure is expected to cost about $1,500,000, and will be 12 stories in height. Robert T. Newberry, Arch., 171 La Salle St., Chicago, is interested.

FORT MADISON, IA.—It is announced that Chicago, Burlington & Kansas City Ry. Co. has decided to build a new brick and stone station at this place, 24 × 92 ft., at a cost of about $12,000. H. Zimmerman, Supt. of Bldgs., Hannibal, Mo.

MINNEAPOLIS, MINN.—The board of education has decided to erect a new school building in Prospect Park to cost about $65,000.

ST. LOUIS, MO.—The contract for the steel work for the new city hall has been awarded to E. H. Connor, 1000 Fullerton Bldg., agent for Pittsburg Bridge Co.——Plans have been prepared for a new stone and iron church building, 71 × 118 ft., to be erected in this city for the Church of the Sacred Heart, to cost about $60,000. Archs., Barnett, Haynes & Barnett, 418½ Olive St.; Pastor, J. J. McCabe.

FORT WORTH, TEX.—It is reported that plans are being prepared for a 5-story steel frame office building to be erected at 7th and Main Sts., at a cost of about $50,000, for Mrs. John R. Hoxie, of Chicago.

IONE, CAL.—Bids are asked until Aug. 22 for the erection of an annex to the administration building, and two double cottages on the grounds of the Preston School of Industry, at Ione. B. T. K. Preston, Secy. Bd. of Trustees; W. W. Oates, Arch., both of Rooms 17 to 19 Salz Bldg., Main St., Stockton, Cal.

PETROLEA, ONT.—Bids are asked by the trustees of the Petrolea Methodist Church until Aug. 15 for the construction of a church building. T. Vandelinder, Secy. Bd. of Trustees; J. Erb, Arch., Sarnia, Ont.

SAN FRANCISCO, CAL.—Plans and specifications are asked until Sept. 19, an extension of time, for erecting a new hospital building on the almshouse tract at a cost of $300,000. Clk., J. A. Russell.

WATER-WORKS.

BREWER, ME.—H. F. Sparks, Supt. Water Dept., Public Works Co., writes us that the company has contracted for a Warren filter plant for the supply of Brewer and Veazie. A brick house will be built at Veazie, where the power house is located. The building will be put up by day labor.

BERLIN, VT.—It is stated that this place is considering the question of securing a new water supply, for which purpose a company will be organized. At present the supply is secured from Montpelier. Martin W. Wheelock may be addressed.

NANTASKET, MASS.—It is reported that a company is being organized to put in new works to cost about $100,000. The Hingham Water Co. at present supplies the town.

NEWBURYPORT, MASS.—Philip H. Lunt, Secy. Water Comrs., writes us that Cashman Bros., of this city, have been awarded the contract to put in the masonry foundation for the new stand-pipe. The contract for the steel tank has been let to E. Hodge & Co., Boston. A report says that it will be 65 ft. high by 40 ft. in diameter.

FULTON, N. Y.—O. C. Breed, Cy. Engr., writes us that the water commissioners have agreed to arbitrate with the Fulton Water-Works Co. for the purchase of the works. The final results of the negotiations are at present exceedingly problematical.

PORT JERVIS, N. Y.—P. E. Farnum, Pres. Port Jervis Water-Works Co., writes us that it will be several months before final action will be taken for a new water supply.

GRANVILLE, N. Y.—The question of an increased water supply is being considered. D. D. Woodward and Jno. Gilroy may be addressed.

NYACK, N. Y.—This place voted July 28 not to purchase the Odell Water-Works for $15,000.

ROME, N. Y.—Bids are asked by J. I. Sayles, Pres. Board of Managers Rome Custodial Asylum, until Aug. 18 for constructing water-works. It will consist of a steel stand-pipe, pipe, valves, hydrants, etc.

HOBOKEN, N. J.—The water commissioners have decided to buy a number of hydrants. Bids for furnishing them will not be asked.

BEAVER, PA.—Simon Harrold, Beaver Falls, Pa., is reported to have been awarded the contract for furnishing the material and for building a new reservoir and a pumping station at about $30,000. Engr., J. P. Leaf, Rochester, Pa.

CHARLEROI, PA.—James S. McKean, Pres. Union Trust Co., sold on July 27 the Charleroi water-works to an eastern syndicate represented by W. M. Bell, for $100,000. The company will spend $150,000 in improving the plant and connecting it with adjacent towns. A contract has been closed with Cronin & O'Herron, Pittsburg, for the construction of two reservoirs at a cost of $10,000. The National Pipe & Foundry Co., Scottdale, Pa., has secured the pipe contract, amounting to $15,000.

LANCASTER, PA.—Simon Shissler, Mayor, writes us that an ordinance will be presented to councils to appropriate $250,000 for improving the stand-pipe, putting in a new pump and a filter.

PHILADELPHIA, PA.—The bureau of water received the following bids July 26 for furnishing additional steam capacity for the Belmont pumping station: Ritter-Conley Co., Pittsburg, five boilers $18,287, one boiler $3,637; I. P. Morris & Co., five $19,119, one $3,735; Worden Mfg. Co., five $23,160, one $4,632; Robert Wetherill & Co., Chester Pa. (accepted), five $18,000, one $3,600. For the annex which must be built to the present boiler house the bids were as follows: R. C. Ballinger & Co., $5,649; M. McManus, $5,759; H. C. Nichols & Co., $4,876.60; Philadelphia Construction Co., $5,933; H. P. Shoemaker & Co., $5,500; S. Gourley, Jr., $6,349; John H. Jordan, $6,431; Macy, Henderson & Co. (accepted), $4,398.

PITTSBURG, PA.—Press reports state that Laughlins & Co., Ltd., are preparing to build a water-works for their blast furnaces at the Eliza furnace to cost $150,000. The capacity will be about 20,000,000 gallons of water a day. The plant has been designed by E. K. Morse, Pittsburg. The pumps are being constructed by the Wilson-Snyder Mfg. Co., Pittsburg. The improvements of various kinds being made at the furnaces will cost about $500,000.

LAUREL, MD.—It is reported that the proposed works for the Laurel Water Co. will be erected at once. The plant will have a capacity for 500,000 gallons a day. The stand-pipe will have a capacity for 50,000 gallons. Wm. H. Minch, of Minch & Eisenbrey, and Jos. M. Cone, of Baltimore, are interested.

POCOMOKE CITY, MO.—Bids will be asked at once by the mayor for the purchase of $30,000 of bonds for the proposed works and sewerage system.

FITZGERALD, GA.—C. C. Goodnow, Mayor, writes us that the contract for building works and a light plant has been let to Moore & McCrary, Atlanta, Ga., at $26,622.

BESSEMER, ALA.—Henry F. De Bardeleben has been awarded the contract for building a dam, etc., for a reservoir for the works of the Bessemer Land & Improvement Co. at $5,000.

MOBILE, ALA.—Bids are asked until Sept. 1 for furnishing the material and for constructing works for this city, as stated in our advertising columns. Engr., T. W. Nicol, Mobile; Mayor, J. C. Bush.

GADSDEN, ALA.—Wm J. Brockway, Receiver Gadsden Water-Works Co., has filed a petition asking the U. S. Circuit Court to restrain this city from building the proposed municipal works.

CAMDEN, ALA.—The question of building works is being considered, according to reports. Jno. A. Milner, Engr., Birmingham, may be addressed.

SARDIS, TENN.—This place voted July 25 to build works, according to reports. Population (1880), 106.

CANTON, O.—The water-works trustees are considering the question of at once purchasing and laying 12,000 ft. of 20-in. water pipe.

SHARONVILLE, O.—The question of works for fire protection is being discussed, according to reports.

CINCINNATI, O.—Bids are asked by the water commission until Aug. 30 for grading the grounds, roads and river banks and for revetment of slopes, etc., for the works at California, O. The lowest bid for this work was submitted July 22 by Louis Drach at $91,901. The highest bid was $163,531.——Chas. G. Roth, Secy., writes us that the following bids were received July 29 for furnishing the sluice gates, etc., for the works, as advertised in Engineering News; the Ludlow Valve Mfg. Co.'s bid is for each sluice gate:

Bidders.	Six Sluice Gates.	One Sluice Gate.	One Hand Pump.
Coffin Valve Co., Boston	$8,150	$1,505	$110
Ludlow Val. Mfg. Co., Troy, N. Y.	980	1,295	400
L. & E. Greenwald Co., Cincinnati	8,216	1,679	100
Lane & Bodley Co., Cincinnati	9,975	1,900	300
Hoeffinghoff & Lane, Detroit	7,531	1,944	1,200
Mich. Brass & Iron Wks., Detroit	1,438	1,955	105
Vulcan Iron Works, Chicago	6,704	1,349	26
A. S. Smith Mfg. Co., Newark, N.J.	7,800	2,000	100

LANCASTER, O.—Bids are asked until Aug. 20 for furnishing and erecting for the Boy's Industrial School, two compound longitudinal duplex pumping engines of 500,000 gallons each. C. D. Hilles, Secy. and Steward.

ELYRIA, O.—Bids are asked until Aug. 24 for furnishing the material and for constructing improvements to the municipal works; estimated cost, about $150,000. Engr., L. E. Chapin, O.; Cy. Clk., W. H. Park.

LAKEWOOD, O.—Bids are asked until Aug. 27 for furnishing the material and for laying a 12-in. water main in Detroit St., from Summit Ave. to Rockey River bridge. U. W. Hird, Clk.

BLOOMINGTON, IND.—Geo. Champe, Cy. Engr., writes us that the water-works was sold at receiver's sale July 28 to Jas. D. Showers, of this city for $19,000. The works will be improved. Population, 9,000.

EAST CHICAGO, IND.—The East Chicago & Northern Indiana Water Co. has been incorporated; capital stock, $17,000; incorporators, G. W. Mayer, B. O. Mayer and J. H. Brown.

EVANSVILLE, IND.—Bids are asked by the board of water trustees until Aug. 15 for constructing the engine and boiler houses for the new water-works; estimated cost, about $50,000. Engr., Chas. Hermany, Louisville, Ky.

LAPORTE, IND.—Bids are asked until Aug. 15 for furnishing and constructing about four miles of 20-in. water pipe to the source of the new water supply and a pumping station on the Little Kankakee River. Engr., W. H. Rosencrans, South Bend, Ind.; Supt., G. R. Tyrrell.

COLEMAN, MICH.—The question of building works is being considered, according to reports.

MOUNT PLEASANT, MICH.—The council proposes to extend the works. Population (1890), 2,700.

JONESVILLE, MICH.—This town is reported as considering the question of building works and a light plant.

CHICAGO, ILL.—The Pittsburg Meter Co., Pittsburg, Pa., has been awarded the contract for furnishing this city with water meters. It is said that this year 8,000 meters will be installed and that in all about 300,000 meters will be purchased at a cost of about $8,000,000. L. E. McGann, Comr. Pub. Wks.

AUGUSTA, WIS.—Bids are asked until Aug. 15 for furnishing and constructing the proposed works, to cost about $12,000. Consult. Engr., A. M. Pallitz, 1102 Pabst Bldg., Milwaukee; Cy., Wm. Johnston.

APPLETON, WIS.—Press reports state that the court has appointed a receiver for the Appleton Water-Works Co.

BELOIT, WIS.—The council proposes to submit to the people at a special election the question of issuing $210,000 in bonds to purchase the proposed works, according to reports.

OSCEOLA, IA.—The people of this place have voted to build works, to cost about $20,000.

NEW PAYNESVILLE, MINN.—Bids are asked until Aug. 8 for furnishing the material and for constructing the works and electric light plant, as stated in our advertising columns. Mayor, P. C. Pilon; Recdr., M. S. Elliott.

OSAGE, IA.—It is stated that an election will be held Aug. 5 to vote on the question of issuing $10,000 in bonds for works. Chn. Com., J. W. Williams; Mayor, Chas. Kathan.

BOZEMAN, MONT.—Geo. D. Pease, Cy. Clk., writes us that this city voted July 26 to issue $165,000 in bonds to purchase the works of the Bozeman Water-Works Co. If the bonds are sold and the works purchased the city will extend the mains about a mile.

GREAT FALLS, MONT.—C. H. Clark, Cy. Clk., writes us that the council has decided to purchase the works of the Great Falls Water Co. It is not likely any improvements will be made.

TRENTON, MO.—We are informed that the American Water & Gas Corporation, 52 Broadway, New York, is contemplating the filtration of the water at the works in this city. Alex. Potter, 137 Broadway, New York, has been retained to prepare the plans. He is engaged in making analysis of the sands available for filtration purposes, and will probably recommend a system of sand filtration. Treas., Wm. F. Ross.

BRECKENRIDGE, COLO.—This place has voted to issue $25,000 of 6% 20-year bonds for new works. Fred. C. Cramer, Engr., writes us that the survey and plans will be made before long.

WARD, COLO.—We are informed that an election will be held Aug. 9 to vote on the question of issuing $12,000 of 6% bonds to build the proposed works, noted in our issue of July 21. Bids for the purchase or the bonds are wanted at once. Engr., D. J. McCanne, 1600 17th St., Denver, Colo.

GOLDFIELD, COLO.—H. King, Mayor, writes us that the proposed works will have a steel tank or 200,000 gallons capacity, seven hydrants, valves, water meters, 18,000 ft. of pipe, etc. The work will be done by the town. Bonds will be issued. Population, 5,000.

PUEBLO, COLO.—Jno. W. Hill, 35 Glenn Bldg., Cincinnati, O., has submitted a report on the proposed improvements to the works. It is recommended that high-service pumps be put in. This, with other improvements, including a 30-in. supply pipe and 10,000,000-gallon tank, will cost about $67,000.

SUMPTER, ORE.—Bids are asked by the council for the purchase of a water-works franchise. There will be required about 1¾ miles of pipe, according to reports.

LOS ANGELES, CAL.—Arbitrators have been appointed to decide the question of the sale to the city of the works of the Los Angeles City Water Co. The council recently offered the company $1,000,000 for the works but this was refused. The 30-year contract with the company is said to have expired July 21.

PETALUMA, CAL.—The question of purchasing the works of the Sonoma County Water Co. is being considered by the council. O. Jacobsen, M. Walsh and J. V. Lon are on the committee.

SAN JOSE, CAL.—The bids for the erection of a steel tower and tank at the county infirmary grounds were rejected July 26, and the clerk was directed to advertise for new bids, they to be received by the board of supervisors until Aug. 15.

SAN MATEO, CAL.—C. E. Moore, Santa Clara, Cal., has been appointed to superintend the building of the works at this place; estimated cost, about $70,000.

PRESCOTT, ONT.—An election will be held Aug. 16 to vote on the question of building works.

ASHBURN, ONT.—Jas. Lawrence, P. M., writes us that this place is not considering the question of building works, as reported in our issue of July 14.

WINNIPEG, MAN.—H. T. Ruttan, Cy. Engr., writes us that the civic board has decided to ask for new bids for building the proposed new works. The following are the bids received July 25. W. F. Lee, Winnipeg, $72,388, and The Pneumatic Engineering Co., New York, $131,886.

GLASGOW, SCOTLAND.—The municipal council is reported to have decided to ask for new bids for furnishing 1,000 tons of cast-iron water pipe. A Philadelphia firm bid $5 a ton below English manufacturers.

SEWERAGE.

WEST GARDNER, MASS.—This town has voted to appropriate $5,000 for constructing certain sewers. C. W. Conant may be addressed.

BUFFALO, N. Y.—The city engineer has been directed to prepare plans for sewers in several streets.

FULTON, N. Y.—The question of building a sewer to drain Waterhouse Creek is being considered by the council and the board of health.

WEEDSPORT, N. Y.—The question of building a trunk sewer to cost about $4,000 is being considered.

FLEMINGTON, N. J.—A. Costa, Orange, N. J., was awarded the contract July 30, at $30,102, for furnishing the materials and for constructing a system, as advertised in Engineering News. The itemized bids will be published next week. W. H. Chapman, Engr.-in-Charge.

NEWARK, N. J.—The question of building 25,000 ft. of 15 to 8-in. pipe sewer in the 10th and 12th Wards is being considered; estimated cost, $25,000. Engr., Ernest Adam.

NEWARK, N. J.—Harrison Van Duyne, Pres. Bd. Pub. Wks., writes us that so far as Newark is concerned it is now joining with South Orange, Vailsburg, Clinton, etc., to have a preliminary survey made with a view of selecting the best route and estimating the cost of an outlet sewer to tide-water. South Orange on its own account had surveys made by Engineer Crane, of East Orange. This outlet for Newark is for the benefit of only a small portion of the city sloping to the west. The city proper empties in tide water of Newark Bay, etc.

ERIE, PA.—Bids are asked until Aug. 4 for a sewer in 26th St. B. E. Briggs, Cy. Engr.

NEWCASTLE, PA.—Waring, Chapman & Farquhar, 874 Broadway, New York, have been engaged to make plans for surface drainage of a portion of this city, for extension of house sewer system, and for main sewer extension.

OAKMONT, PA.—An election will be held here Aug. 16 to vote on the question of issuing $65,000 in bonds; $41,000 of which is for a sewerage system, and $16,000 for street improvements. Borough Solicitor, J. P. Hunter.

SOUTH BETHLEHEM, PA.—This place voted July 26 to issue $100,000 in bonds for constructing a system.

STOCKTON, PA.—The council is reported as again considering the question of building sewers at a cost of about $50,000.

YORK, PA.—The committee has adopted plans for sewers for which $180,000 will be appropriated out of the proposed $500,000 loan for public improvements. City Engineer McKinnon and Mayor Brant may be addressed.

POCOMOKE CITY, MD.—It is stated that the council will ask for bids at once for the purchase of $30,000 of bonds for building the proposed system and water-works. Work will probably be begun at once.

WAYCROSS, GA.—Waring, Chapman & Farquhar, 874 Broadway, New York, have been ordered to make examination, take levels, and report on sewerage and sewage disposal, preparatory to a vote on issuing bonds for construction later on.

MOBILE, ALA.—The council has directed the sewerage committee to report on a system for the city at the meeting to be held Aug. 22. J. C. Bush, Mayor.

OXFORD, MISS.—Jno. F. Brown, Mayor, writes us that this place failed to vote July 26 in favor of building a system and light plant. It is only a question of a short time when the improvements will be put in.

CONCORD, N. C.—Surveys for the proposed system are being made; population, 7,000.

NASHVILLE, TENN.—The question of building sewers in certain streets is being considered. Mayor Dudley may be addressed.

LOUISVILLE, KY.—The question of building new sewers and of improving the old ones is being considered. Mayor Weaver, City Engineer Parsons and Mr. Grainger of the board of public works may be addressed.

HAMILTON, O.—The board of control has ordered plans for new sewers in certain streets. Mr. McMaken, of the board, may be addressed.

KENTON, O.—Bids are asked until Aug. 13 for constructing about 17,500 ft. of 24 to 10-in. pipe sewer, etc. Engr., W. E. Myers; County Audr., James Bastable.

TOLEDO, O.—Bids are asked until Aug. 29 for building a 72 to 54-in. brick sewer in Adams St. L. P. Harris, Cy. Clk.

FORT WAYNE, IND.—Plans have been ordered by the council for sewers in certain streets.

WARSAW, IND.—The question of building a system is being considered.

HIGHLAND PARK, MICH.—The question of building a system at a cost of about $60,000, to empty into the Detroit system, is being considered.

CARMI, ILL.—It is reported that the Bray Construction Co. has been organized to build a system for this place. Chas. T. Bray and F. L. Geissler, of Belleville, are interested.

MENDOTA, ILL.—The Iowa Engineering Co., Clinton, Ia., has been engaged to make plans and superintend the building of a large extension to the sewers and six intermittent sand filters at Mendota. Mr. Chase, of the company, had charge of building nine miles of sewers here two years ago.

QUINCY, ILL.—It is proposed to construct 15 to 8-in. pipe sewers in about 20 streets.

PITTSBURG, KAN.—The question of building sewers in certain streets is being considered.

KANSAS CITY, MO.—Henry A. Wise, Cy. Engr., writes us that nothing, aside from surveys, has been done in regard to the proposed Westport sewer district.

GALVESTON, TEX.—The Galveston Sewer Co. has refused to sell its system to this city for $40,000. Secy., Geo. H. Henchman.

SPOKANE, WASH.—J. C. Broad submitted the lowest bid July 21 for constructing 1,187 ft. of sewers in Front Ave., from Bernard to Division Sts., at $4,565. The lowest bid for 1,453 ft. in Front Ave., from Division to Grant Sts., was submitted by Ilse & Dishman, at $7,500.

SANTA ANA, CAL.—The city trustees have engaged H. C. Kellogg, County Surv., to superintend the construction of the system. The money from the sale of the recent bond issue is expected to be received within a few days, and work on the system will be commenced immediately; estimated cost, $65,000.

SAN LUIS OBISPO, CAL.—It is stated that an election will soon be held to vote on the question of extending the system at a cost of about $36,000; Engr., Geo. Story.

SAN RAFAEL, CAL.—This place voted July 16 to issue $26,000 in bonds for building 8,000 ft. of pipe sewer. Chn. Com., Henry Eickhoff.

MARTINEZ, CAL.—The town engineer has been directed to prepare plans and specifications for sewers in certain streets.

TUCSON, ARIZ.—Chas. T. Connell, Recdr., writes us that the bonds for the proposed system have not yet been offered for sale. Some legal objection is to be overcome.

LONDON, ONT.—W. T. Ashbridge writes us that the contract for Section B of the system was awarded July 28 to Harding & Leatham, of London, at $13,746. One other tender was received, being $14,545. City engineer's estimate, $14,985. The work will include: 3,210 ft. of 20-in. cast-iron pipe (135 lbs. per foot); 80 ft. of 16-in. cast-iron pipe; 300 ft. of 20-in. steel riveted pipe; 55 ft. of 36-in. brick sewer; 1 syphon chamber, 10-ft. drain, 17 ft. deep; 5 cedar cribs, 6 × 8 ft. × 11 ft., filled with stone; 60 oak piles; 1 concrete culvert (2 walls, each 4 × 35 ft., base, 12 × 2 ft. on top); 1,200 cu. yds. of earth filling. A. O. Graydon, Cy. Engr.

GARBAGE DISPOSAL—STREET CLEANING

NEWPORT, R.I.—The following bids were received by the council July 25 for collecting and disposing of house offal for a term of three years, from Aug. 8: Collecting, John Sullivan, $20,754; J. J. O'Hearn and R. J. Lawton, $20,700; David Goggin, $23,400; Abram A. Brown, $20,500; J. P. Sullivan, $15,300; P. H. Horgan, $18,000; Richard Dugan, $14,940 (accepted). Disposing, J. K. Sullivan, $8,800; G. B. Reynolds, $11,500; T. P. Crowley, $7,602 (accepted), and A. B. Gladding, $3,300.

NEW YORK, N. Y.—The American Street Cleaning Co. of New York, was incorporated under the laws of New Jersey July 29; capital stock, $1,000,000. The company was organized to enter into contracts for street cleaning. The incorporators are all of New York with the exception of one. They are J. F. O. Meyer, 27 West St.; R. H. Beach, 44 Broad St.; W. C. Gotschall, 5 University Place; Frank Klein, 237 Broadway; W. R. Bergholz, 15 Cortlandt St.; J. L. Pell, 214 Broadway; A. M. Dederer, 486 Broadway, and James N. Walter, Jersey City.

NEW YORK, N. Y.—Bids are asked until 12 m., Aug 5 for alterations to the steam dumper "Cinderella." James McCartney, Comr. St. Cleaning, 346 Broadway, Manhattan.

ORANGE, N. J.—The question of building a garbage cremation jointly with Bloomfield, Montclair and West Orange is being considered. Dr. G. H. Richards and Dr. T. F. Phelan are the commissioners from Orange.

ERIE, PA.—The committee has recommended that a garbage disposal plant be built in this city at a cost of about $10,000.

WARREN, PA.—The board of trustees of the state hospital are again considering the question of securing a garbage disposal plant; estimated cost, $10,000.

MILWAUKEE, WIS.—Bids are asked until Aug. 12 for furnishing and installing a garbage crematory; bond, $12,000. G. H. Benzenberg, Chn. Comrs. Pub. Wks.; J. R. Wolf, Comptroller.

STREETS AND ROADS.

BOSTON, MASS.—Bids are asked until 12 m. Aug. 4 for macadamizing in Preverell St. and Telford St. Benj. W. Wells, Supt. Sts.

MEDFORD, MASS.—The council has appropriated $45,000 for the reconstruction of Main and Salem Sts.

PLYMOUTH, MASS.—Bids are asked until 12 m. Aug. 4 for constructing about 5,000 ft. of highway. T. C. Meuenhall, Chn. Massachusetts Highway Comn., Boston.

BUFFALO, N. Y.—Bids are asked until Aug. 15 for paving Porter Ave., with asphalt, from Fourth St. to the bridge. G. H. Selkirk, Secy. Bd. Park Comrs.

CORTLAND, N. Y.—The board of trustees has awarded a contract to the Warren-Scharf Asphalt Paving Co., at $71,593, for furnishing and constructing about 22,000 sq. yds. of asphalt paving, as advertised in Engineering News. W. C. Crombie, Clk.

MOUNT VERNON, N. Y.—Bids are asked until Aug. 16 for the purchase of $40,000 of 4% street bonds. Wm. N. Hoyt, Cy. Clk.

NEWBURGH, N. Y.—The council is considering the expenditure of $26,667 for asphalt paving.

NEW YORK, N. Y.—Bids are asked until Aug. 16 for paving asphalt bicycle paths on six avenues, in the Borough of Queens. Jas. P. Keating, Comr. Highways, 150 Nassau St.

OSWEGO, N. Y.—Bids will soon be asked for about 1,800 sq. yds. of asphalt paving in West Oneida and Mohawk Sts., to cost about $3,500. Frank Ormsby, Cy. Engr.

SYRACUSE, N. Y.—The council has awarded a contract to the Columbia Construction Co., at $9,257, for paving in Park Ave., with sheet asphalt; the Asphaltina Construction Co., at $21,677, for asphaltina paving in portions of Barker Ave., Matty Ave., Wilkinson and Tracy Sts., and the Empire Contracting Co., at $40,629, for paving in Park Ave., with Alcatraz asphalt.

SHARPSBURG, PA.—Bids are asked until Aug. 9 for grading portions of Middle St. Jas. A. Robinson, Chn. Com.

WINCHESTER, VA.—C. E. Hoover & Co., Winchester, have been awarded a contract at $6,738, for constructing 4,900 sq. yds. of brick pavement, curbing, etc.

BIRMINGHAM, ALA.—F. Y. Anderson informs us that petitions have been filed with the county commissioners to build the Red Mountain Boulevard, and H. Schoel, Engr., is making an estimate of the cost. It is proposed to make the boulevard 60 ft. wide and 5½ miles long, to be located on the bench running on the north side of the mountain.

MONTGOMERY, ALA.—Bids are asked until Aug. 8 for brick paving in a portion of Holcombe St. and Lawrence St. R. H. Somerville, Treas.

LOUISVILLE, KY.—Bids are asked until 12 m. Aug. 5 for constructing asphalt pavement on portions of 26th St. and Oak St.; also until Aug. 6 for paving portions of Von Borries Ave. and Hepburn Ave. with asphalt. Chas. F. Granger, Chn. Bd. Pub. Wks.

CANTON, O.—Bids are asked until Aug. 29 for removing the old pavement and for furnishing and constructing a brick pavement on South Cherry St. L. E. Chapin, Cy. Engr.; Louis N. Levy, Cy. Clk.

FINDLAY, O.—Bids are asked until Aug. 8 for grading and macadamizing in Maple Ave., from Lima to Hancock Sts. A. W. Ray, Clk.

FREMONT, O.—Bids are asked until Aug. 15 for grading, curbing, paving and macadamizing in Hayes Ave. and Napoleon St., as stated in our advertising columns. Henry Hughes, Cy. Engr.

MALTA, O.—Bids are asked until Aug. 29 for paving portions of Front, Bell and Main Sts., with brick. Paul R. Murray, Engr.; W. S. Connor, Clk.

TOLEDO, O.—Bids are asked until Aug. 15 for furnishing the material and grading and draining in Felt St., and until Aug. 29 for furnishing the material and paving portions of Erie St., Fassett St. and Lawrence Ave., with Wassell repressed blocks, etc. L. P. Harris, Cy. Clk.

ZANESVILLE, O.—Bids are asked until Aug. 13 for grading Zane Ave. Chas. N. Bainter, Cy. Clk.

CAMBRIDGE CITY, IND.—Bids are asked until Aug. 24 for constructing cement sidewalks on several streets. Dan. E. Petro, Clk.

INDIANAPOLIS, IND.—Bids are asked until Aug. 10 for asphalt paving in Delaware St., and graveling in Barth Ave. M. A. Downing, Chn. Bd. Pub. Wks.——Bids are asked until Aug. 30 for constructing seven miles of gravel road; estimated cost, $19,608. J. R. Riggs, County Audr.

KOKOMO, IND.—The council has voted to pave North Main St. with brick for a distance of 4,076 ft.

COLDWATER, MICH.—Bids are asked until Aug. 16 for furnishing the material and for constructing brick pavement on concrete foundation on Chicago St., as stated in our advertising columns. P. H. Sweeney, Cy. Clk.

MUSKEGON, MICH.—Smith & Nelson have been awarded a contract by the county commissioners, at $9,498, for building the road to North Muskegon.

WYANDOTTE, MICH.—The council has decided to spend $3,000 in laying new crosswalks.

CHICAGO, ILL.—The board of public improvements has passed ordinances for the paving of about 20 miles of streets, with asphalt, granite, brick and macadam, to cost about $400,000.

PEORIA, ILL.—Bids are asked until 2 p. m., Aug. 5, for furnishing gravel and team work, for the construction of the Galena Road, in Richwoods township. John M. Hart, County Comr.

ASHLAND, WIS.—Bids are asked until Aug. 11 for paving a portion of 2d St. Chas. Crogster, Chn. Bd. Pub. Wks.

EAU CLAIRE, WIS.—Alderman Hammond has introduced an ordinance for brick paving on portions of South Barstow, Kelsey and four other streets.

MARYVILLE, MO.—A committee, consisting of John C. Curfman, Dr. S. C. McCluskey and A. A. Alden has been appointed to consider the question of county road improvements.

SEDALIA, MO.—Bids are asked until 5 p. m., Aug. 5, for paving on Ohio St. with brick. Jos. A. Starr, Chn. Com.

BEAUMONT, TEX.—The council has passed an ordinance to issue $13,000 of 6% street and water bonds. Mayor, D. P. Wheat.

HOUSTON, TEX.—Bids are asked until Aug. 20 for the purchase of $100,000 of street improvement bonds. I. A. Miller, Cy. Engr.; P. S. Banner, Secy.

OAKLAND, CAL.—Bids are asked until Aug. 15 for macadamizing on Fruitvale Ave. and the San Leandro Road. G. L. Nusbaumer, County Surv.

SPOKANE, WASH.—A contract has been awarded to the City Street Improvement Co., San Francisco, at $49,-825, for paving Riverside Ave. with sheet asphalt, from Monroe St. to Division St. B. H. Fowle, Secy. Bd.

MANUFACTURING PLANTS.

FALL RIVER, MASS.—The Fall River Bleachery, at Fall River, Mass., has placed the contract for its new mill with the Berlin Iron Bridge Co., of East Berlin, Conn. The building will be 65 × 200 ft., with side walls of stone and supporting framework of steel.

MIDDLETOWN, CONN.—C. E. Dustin, Hartford, Conn., is reported as again making efforts to secure capital for the construction of a plant for manufacturing electrical goods.

BEAVER FALLS, N. Y.—The strawboard pulp mill of the Jas. P. Lewis Co. has been destroyed by fire, causing a reported loss of $50,000; insurance, $18,000.

JAMESTOWN, N. Y.—The Broadhead worsted mills have been damaged by fire to the extent of $50,000; fully insured.

TROY, N. Y.—The Trojan Car Coupler Co. having purchased a portion of the Gilbert Car Co.'s works on Green Island, are to make additions and alterations and to remove its plant there. Proposed additions include blacksmith shop, 75 × 50 ft., main shop, 50 × 190 ft. Pres., A. H. Renshaw; Secy., Eugene Seitz.

HOMESTEAD, PA.—Press reports state that about $500,-000 will be spent in erecting two new manufacturing plants just below Homestead. The Leechburg Foundry & Machine Co. and the Shiffler Bridge Co. will move their respective plants there before the year is ended. The property has been bought at a cost of $130,000, and plans are ready and the survey about to be made. Building will begin about September 1. The Leechburg Foundry & Machine Co. is now located at Leechburg while the Shiffler Bridge Works are at 48th St. and the Allegheny Valley R. R. George Mesta, Pres. Leechburg Foundry & Machine Co.; W. J. Walker, Pres. Shiffler Bridge Co.

LOCK HAVEN, PA.—The main building of the Farrandsville Fire Brick Works, owned by Fredericks Munroe & Co., was totally destroyed by fire July 27. The building was a frame structure 220 × 70 ft., and contained valuable machinery. It will be rebuilt at once. The loss is estimated at $40,000, with no insurance.

PHILADELPHIA, PA.—The bakery belonging to Henry Wanklin & Co., Mitchell St. and Greene Lane, Roxborough, was destroyed by fire July 22, causing a reported loss of about $30,000.——Architects Hales & Ballinger, 102 So. 12th St., are preparing plans and specifications for a 3-story brick factory and dye house to be erected for J. H. Kelm, woolen manufacturer, at Fifth St. and Allegheny Ave.

PITTSBURG, PA.—The Chautauqua-Eureka Ice Co. has awarded the contract for the erection of a new ice and storage plant, to replace that destroyed by fire, to Alexander Gilleland, at $100,000. The new warehouse will be much larger that the one burned. It will be bounded by Pike and 13th Sts. and Mulberry Alley.

LYNCHBURG, VA.—It is stated that P. C. Hubbard will rebuild his machine shops, factory, etc., at once. The main building will be 40 × 100 ft.

MANCHESTER, VA.—The Richmond Cotton Mills Co., it is stated, has placed a mortgage for $30,000, which it will use for purchasing new machinery. No contracts have yet been let. Secy., C. M. Woodford.

HEILEG, N. C.—A roller flour mill is to be established here or at Rockville soon by a company of local farmers and business men. Address Calvin M. Miller, County Surveyor, Concord, N. C.

COLUMBIA, S. C.—The Granby Cotton Mills of Columbia, decided on July 27 to increase its capital stock from $200,-000 to $800,000, and to quadruple the capacity of its plant. Machinery and a new power plant are yet to be bought. The Richland Cotton Mill Co., of Columbia, will also add 12,000 more spindles to its equipment. Mr. Whaley is president of both companies.

ATLANTA, GA.—A new outfit will soon be bought for the textile department of the Atlanta Technical School as the city has just appropriated $3,000 additional to the $3,000 donated by Mr. French, of Pittsburg.

CORDOVA, ALA.—Press reports state that the Ivy Coal & Coke Co. will build additional coke ovens, etc.

ENSLEY, ALA.—J. E. Lacy & Co., of Jasper, Ala., have been awarded the contract for the grading and excavating for the large steel plant to be erected here.

MOOREFIELD, ILL.—The Peoria & Eastern R. R. Co., it is said, will build new shops at Moorefield. Estimated cost, $30,000, together with turn-tables, additional tracks and other improvements. The plans have been prepared and work will begin at once.

OTTUMWA, IA.—The Janney Mfg. Co. of this place, will soon erect several new buildings, and will install therein a 100 or 125-HP. power plant.

COFFEEYVILLE, KAN.—The Coffeyville Vitrified Brick Co. informs us that it has not yet determined whether it will erect a new plant at this place or not.

LEAD, S. DAK.—The Deadwood-Terra shaft house was burned July 26, causing a loss of about $50,000. Three hundred men were employed. It is expected to rebuild at once.

MONTREAL, QUE.—The factory of the Mergenthaler Linotype Co. was damaged by fire July 29; reported loss, $50,000.

GAS PLANTS.

PITTSFIELD, MASS.—The Pittsfield Coal Gas Co. will install a new gas engine, etc., to cost about $9,000.

PHILADELPHIA, PA.—Reports state that the United Gas Improvement Co. proposes to lay about 12 miles of new mains.

ALLEGHENY, PA.—The Riter-Conley Co., Prebel Ave., Allegheny, has been awarded a contract for constructing a gas holder for the Allegheny Heating Co., at $225,000. The heating company is arranging to purchase ground adjoining the plant of the Allegheny Gas Works as a site for the holder, which will have a capacity of 5,000,000 cu. ft. of gas.

CHARLOTTE, N. C.—The Charlotte Electric Ry. Co. will construct a gas plant and system at this place, of the Lowe water gas type. About 10 miles of 4 to 10-in. pipe will be purchased.

KENOSHA, WIS.—The Kenosha Gas & Fuel Co. is constructing a new plant, to cost about $30,000.

SUPERIOR, WIS.—Bids are asked until Aug. 16 for furnishing and maintaining 500 Welsbach lamps from 80 to 100-c. p., and 4,500 16-c. p. naphtha or gasoline lamps. F. J. Sequin, Cy. Clk.

WAUKEGAN, ILL.—It is reported that Louis M. Grant, Chicago, has purchased the stock of the old gas company, and will erect new works, at a cost of about $50,000.

CHICAGO, ILL.—The Universal Gas Co. has arranged to construct a 5,000,000 cu. ft. gas holder, according to reports.

DULUTH, MINN.—Bids are asked until Aug. 15 for furnishing and maintaining 200 Welsbach lamps. H. W. Cheadle, Cy. Clk.

NEW COMPANIES.—Verna Petroleum Oil Co., Corsicana, Tex.; $15,000; to construct and operate a gas system; J. J. Culbertson, Paris; R. K. Erwin, and J. U. Singleton, Waxahachie, Tex.

Electric Gas Light Co., Baltimore, Md.; $10,000; to manufacture acetylene gas machines; Geo. C. Wedderburn, Prudencio de Murgunondo, Jas. H. Couper, John W. Kolb and Frank C. Pearre, Baltimore.

MISCELLANEOUS CONTRACTS.

DREDGING.—Stockton, Cal.—Bids will soon be asked by the board of public works for dredging the harbor channel.

GUN FORGINGS.—Washington, D. C.—Bids are asked until Aug. 10 for furnishing 8-in. gun forgings. J. D. Long, Secy. Navy Dept.

CLEARING.—Point Wilson, Wash.—Bids are asked until Aug. 13 for clearing at Point Wilson. Capt. Harry Taylor, U. S. Engr., Burke Bldg., Seattle, Wash.

CULVERT.—Omaha, Neb.—Bids are asked until Aug. 12 for furnishing the material and constructing an 8-ft. brick culvert; bond, $50,000. D. M. Haverly, County Clk.

TELEPHONES.—St. Paul, Minn.—Superintendent King, of the police patrol system, has recommended a proposition to purchase telephones for a private system.

DRAINAGE.—Cissna Park, Ill.—Bids are asked until Aug. 15 for dredging a ditch and laying about 3,550 lin. ft. of 6 to 12-in. tile. H. B. Harvey, Village Clk.

BONDS.—Montreal, Que.—Bids are asked until Aug. 8 for the purchase of $150,000 of 4% harbor improvement bonds. Jos. Woods, Secy. and Treas. Quebec Harbor Comrs.

DREDGING.—Waukegan, Ill.—Bids are asked until Sept. 5 for dredging Waukegan Harbor to a depth of 18½ ft., as stated in our advertising columns. H. Thacker, Cy. Clk.

DREDGING.—Bridgeport, Conn.—Bids are asked until Aug. 31 for dredging the harbor, as stated in our advertising columns. Maj. Smith S. Leach, U. S. Engrs., New London, Conn.

TELEPHONE EXCHANGE.—Greenfield, Ind.—Reports state that W. A. Vail, Supt., Central Union Telephone Co., Indianapolis, is making arrangements to establish a telephone exchange.

DREDGING.—Boston, Mass.—Bids are asked until 12 m. Aug. 4 for dredging a channel to a depth of 16 ft., between Congress St. and Mount Washington Ave. Wm. Jackson, Cy. Engr.

BONDS.—Healdsburg, Cal.—Bids are asked until Aug. 25 for the purchase of $80,000 of 5% bonds for waterworks, sewers and general improvements. C. H. Pond, Clk. Bd. of Trustees.

FIRE ALARM SYSTEM.—Washington, D. C.—The Gamewell Fire Alarm Co., New York, has been awarded a contract by the commissioners, at $37,500, for installing a new fire alarm system.

PIER.—Brooklyn, N. Y.—Bids will soon be asked by J. S. Cram, Comr. Docks and Ferries, Pier A, New York, for the completion of the recreation pier at North Second St., East River; estimated cost, $12,000.

ALARM SYSTEM.—Dallas, Tex.—A franchise has been granted to O. J. Gorman and others, of this city, to construct and operate a district messenger call, fire alarm system, etc. W. A. Fraser, Cy. Electrician.

DAMS AND SHORE PROTECTIONS.—Mississippi River.—Bids are asked until Aug. 30 for constructing dams and shore protections, as described in our advertising columns. Capt. C. McD. Townsend, U. S. Engrs., Rock Island, Ill.

BONDS.—Salt Lake City, Utah.—Bids are asked until Aug. 16 for the purchase of 200 20-year 4% bonds of the denomination of $500 each, and of 400 bonds of the denomination of $1,000 each. G. H. Backman, Cy. Recdr.

DREDGING.—New York, N. Y.—Bids are asked until 11 a. m. Aug. 5 for about 16,000 cu. yds. of mud dredging and 4,500 cu. yds. of crib dredging at the foot of Watts St., North River. J. Sergeant Cram, Comr. Docks, Pier A, North River.

TUNNEL.—Fort Wayne, Ind.—Plans will be prepared by F. M. Randall, Cy. Engr., according to reports, for the construction of a tunnel on Clinton St., from Holman to Murray Sts., under the railway tracks. Councilman Lennart may be addressed.

ABUTMENTS AND WING WALLS.—Boston, Mass.—A contract has been awarded to James, McGrau & Co., at $42,878, for constructing three granite abutments, 119 ft. long each, and two wing walls, each 35 ft. long, on B and C Sts. William Jackson, Cy. Engr.

DITCH.—Melville, N. Y.—A ditch will be constructed from Melville to Buffalo Lake, a distance of about 17 miles, at a cost of about $20,000. Hanis Gronerued, Beaver Falls; T. F. Miller, Hector; Judge Vanderburg, St. Paul, Minn., and A. M. Knight, Glencove, N. Y., are interested.

GRADING, EXCAVATION, ETC.—California, O.—Bids are asked until Aug. 30 for the grading of grounds, roads and river bank, revetment of slopes and excavation of Clear Well, near the California. The bids for this work received recently were rejected. Chas. G. Roth, Clk. Comrs. Water-Works, Cincinnati, O.

DOCK.—Cleveland, O.—Bids will soon be asked by the director of public works for constructing the new Erie St. dock. The improvement to be made at the foot of Erie St. consists of the construction of a pile and timber pier with stone filling in continuation of the present pier as now constructed, 70 ft. northerly along Erie St., and thence west parallel with the government breakwater to Seneca St.; and also for constructing piers for a slip 200 ft. wide.

IMPROVING CRUISER.—Washington, D. C.—Press reports state that the board of construction of the navy department has decided to refit and renew the "Abert," an iron third-class cruiser of the old navy, now at the Mare Island navy yard, San Francisco, Cal. The rig will be changed from ship to barkentine, a spar deck will be added, new boilers installed and the vessel generally and thoroughly overhauled. It will be equipped with a battery of six 4-in. rapid-fire guns. The total cost of these improvements, it is expected, will be about $100,000.

LOCK WALLS, ETC.—Louisville, Ky.—The following bids were received by Capt. J. G. Warren, U. S. Engrs., July 28, for building masonry lock walls and abutments for the dams of lock No 8 on the Kentucky River: Thomas C Sheridan, Buffalo, W. Va., $188,398; J. V. Hoag, Pittsburg, Pa., $198,038; Christie, Lowe & Heyworth, Chicago, $201,523; William A. Kirk, Madison, Ind., $205,596; Mason, Hoge & Co., Frankfort, Ky., $208,560; Walter Bradley & Co., Oswego, N. Y., $230,447. The site for lock No. 8 is about four miles above Hickman, about 22 miles above High Bridge, and about 12 miles below Valley View. The work contemplated in the present contract is the construction of the stonework alone of the two lock walls and abutment, including the preparation of sites. The cofferdam and excavation at the site for the lock and abutment are to be completed during the working season of 1898. The whole work must be completed before Dec. 31, 1899.

CONTRACT PRICES.

ASPHALT PAVING.—Reading, Pa.—The following bids were received by the board of public works July 18, 1898, for about 52,000 sq. yds. of asphalt paving; the lowest bid being about $7,000 in excess of the appropriation of $100,000, all the bids were rejected: Pennsylvania Asphalt Co.—Asphalt paving, a sq. yd., $2.05; resetting 8-in. granite curbing, a ft., $1.15; 6-in., $1.05; resetting 8-in. and 6-in., 30 cts. Richardson & Ross, Philadelphia.—Asphalt paving a sq. yd., $2.24; setting 8-in. granite curbing, $1.25; 6-in., $1.12; resetting 8-in., 50 cts.; 6-in., 40 cts. Alcatraz Paving Co.—Asphalt paving, a sq. yd., $2.07; setting 8-in. granite curbing, $1.17 a ft.; 6-in. $1.04; resetting 8-in., 28 cts.; 6-in., 26 cts.

BRICK PAVING.—Rock Island, Ill.—W. A. Darling, Cy. Engr., writes us that the following bids were opened July 11 for 17,710 sq. yds. of brick paving; estimated cost, $25,636:

	Flick & Johnson.	Edwards & Walsh.
Curb	$0.46	$0.45
Paving with macadam foundation	1.23	1.23
Paving with concrete foundation	1.48	1.41

ASPHALT PAVING.—Baltimore, Md.—The following bids were received July 19, for asphalt paving in Mount Royal Ave., from Guilford Ave. to Dolphin st.; L. F. Lewis, Cy. Comr.:

Bids Received at Baltimore, Md., July 19, 1898, for Asphalt Paving.

Quantities.		‡Southern Asphalt Paving Co., Baltimore.	Jas. P. McGovern, Baltimore.	R. Parker McCormick, Baltimore.	Barber Asphalt Paving Co., New York.	J. S. Filbert, Baltimore.
Sheet asphalt paving*	18,000 sq. yds.	$1.52	.....	.....	$2.55	$2.27
Belgian block paving†	2,500 " "	2.60	$2.60	$3.20	2.75	2.65
6-in. curb, New, in place	100 lin. ft..	.70	.90	1.00	1.28	1.21
6-in. curb, Old, redressed and set	500 " "	.13	.15	.25	.45	.31
6-in. curb, Old, redressed, in place	500 " "	.13	.15	.15	.25	.25
Resetting and rejointing old curb in cross sts	100 " "	.12	.15	.15	.35	.27
4½-in. headers set	300 " "	.60	.65	....	.50	.65
3-ft. open stone gutters	150 " "	3.30	3.50	2.50	3.85	3.85
Vitrified brick gutters and paving	800 sq. ft...	.23	.22	....	.32	.27
Cobble paving	1,000 " "	.06	.06	.06	.10	.09
Cobble repaving	6,500 " "	.03	.03	.03	.07	.07
Hauling, Old cobblestone, a mile	1,500 cu. yds.	.30	.50	.50	.12	.10
Hauling, Old curbstone, a mile	100 lin. ft..	.06	.07	.05	.10	.10
Hauling, Old flagstone	4,300 sq. ft...	.04	.04	.10	.15	.14
Total, without asphalt		$8,454	$8,985	$10,130	$9,762	$9,349
Total, with asphalt		27,360	.....	.....	45,900	40,860

*Including grading, a 6-in. concrete base, 1½-in. binder and 2-in. wearing surface. †Including grading, a 6-in. concrete base, 2-in. sand cushion, 10-in. gutter stones, and pouring joints with asphalt cement. ‡Awarded contract for sheet asphalt.

STEEL RAILS.—Tientsin, China.—E. G. Adams, Jr., Professor of Civil Engineering, Imperial Tientsin University, has sent us the following table from the Pekin and Tientsin "Times," of the bids received in March, 1898, by the Imperial Chinese Ry. for furnishing 7,000 tons of rails and other supplies. The bidders all do an import and export business in Tientsin. The rate of exchange of Tientsin taels at the date of receiving the bids was about 158⅝ taels to $100 U. S. currency. In our issue of June 30 we gave prices for rails received in April. The bids were as follows, the prices probably being for the long ton:

Bidder.	Price a ton. Rails, taels.	Fish-plates, taels.	Bolts, taels.	Spikes, taels.
Jardine, Matheson & Co.[1]	47.54	59.25	119.54	113.69
Wm. Forbes & Co.[2]	48.00	60.71	99.81	90.04
George Turner[3]	48.00	60.25	116.25	111.00
Louis Spitzel & Co.[4]	48.75	68.71	86.85	86.85
Birch & Co.[1]	48.88	60.62	115.30	110.47
Wm. Forbes & Co.[3]	49.56	62.27	101.37	91.60
Vander Stegen & Co.[5]	49.36	68.71	90.39	84.19
Carlowitz & Co.[1]	50.70	63.00	119.55	114.60
Wm. Forbes & Co.[2]	50.83	63.54	123.18	117.31
Buchheister & Co.[1]	51.00	64.00	122.00	117.00
Mitsui Bussan Kaisha[2]	51.05	63.40	121.40	114.15
Tientsin Trading Co.[1]	51.88	64.61	121.15	115.85
Mandl & Co.[6]	57.75	75.40	108.45	103.30

The following are the rail-makers: [1]Cammel & Co.; [2]To approval; [3]Barrow; [4]Maryland Steel Co.; [5]Cockrill & Co.; [6]Krupp.

ELECTRIC LIGHTING.—Long Beach, Cal.—The Long Beach & San Pedro Electric Co. has submitted a bid for the lighting of Long Beach. The proposition is based on the moonlight schedule, and offers to provide 16-c. p. lights, two on a standard, for $1.40 each a month, the standards to be 150 ft. apart.

ELECTRIC AND GAS LIGHTING.—Ironton, O.—We are informed that the following bids were received July 14, 1898, for electric and gas lighting: Ironton Electric Light & Ry. Co., 100 or more arc lamps, 1,200 nominal c. p., moonlight, $65 for five years and $60.50 for 10 years; all night, $75 and $70.50 for 5 and 10 years, respectively; 2,000 nominal c. p., moonlight, $85 and $80; all night, $95 and $90; 400 or more inclusive 25 c. p., moonlight, $24.50 for 10 years; 50 c. p., all night, $32.50 for 10 years.

Ironton Gas Co., 100 to 200 gas lamps, all night, $16; moonlight, $15; 200 to 300 gas lamps, all night, $15; moonlight, $14; 300 to 400 or more gas lamps, all night, $14.50; moonlight, $13.50. All the gas lighting is for 5 years.

LAYING WATER PIPE.—Boston, Mass.—The Metropolitan Water Board received the following bids July 21, for laying water pipe in Section 25; contract awarded Michael Russo:

Bids Received at Boston, Mass., July 21, 1898, for Laying Water Pipe in Section 25.

Quantities.		Michael Russo, Boston, Mass.	Jos. D Gennaro, Boston, Mass.	Bruno & Salamone, Boston, Mass.	Benj. P. Bill, Malden, Mass.	L. A. Taylor, Worcester, Mass.	John J. Falvey, Somerville, Mass.	Chas. Linnehan, Cambridge, Mass.
Laying 20-in. cast-iron pipe	25 lin. ft.	$1.00	$0.60	$1.20	$0.55	$1.25	$0.75	$1.00
" 16-in. " "	4,025 " "	.39	.47	.55	.55	.60	.65	.67
" 12-in. " "	450 " "	.30	.39	.45	.55	.40	.61	.62
" 4-in. " "	50 " "	.25	.25	.24	.25	.50	.20	.47
Excavation, rock, above grade	25 cu. yds.	.50	3.00	2.00	3.80	3.00	4.50	3.00
" " below "	10 " "	.50	3.00	.01	1.00	4.00	5.00	3.00
" earth, " "	10 " "	.50	.50	.45	.60	.60	.40	.50
Setting air valves	3 each	3.00	3.00	2.50	3.00	3.00	2.00	7.00
Chambers for valves*	12 "	35.00	25.00	28.00	33.00	26.00	25.00	37.00
Concrete masonry	10 cu. yds.	5.00	5.00	4.00	4.80	5.00	5.00	5.00
Total		$2,595	$2,087	$3,391	$3,547	$3,683	$4,027	$4,252

*Less than 20-in. diameter and air valves.

RAILWAY EMBANKMENT, ETC.—Lamont, Ill.—The board of trustees of the Sanitary District of Chicago received the following bids July 20, 1898, for building a railway embankment and work collateral thereto, and for removing rock from main channel, Section 8, Lamont, as advertised in Engineering News: (1) fill railway embankment, 126,900 cu. yds.; (2) excavation and disposition of material, 19,782 cu. yds.:

	1.	2.	Total.
Mason, Hoge, King & Co., Chicago	$0.18	$0.63	$35,305
McArthur Bros. Co. and Winston & Co.	.175	.75	37,044
Griffiths & McDermott Const'n Co.	.25	.69	43,594
Hayes Bros., Janesville, Wis.	.25	.78	47,155
J. J. McCaughey, Summit, Ill.	.34	...	.....

PAVING.—Cortland, N. Y.—We are informed that the following bids were received July 25 for paving, as advertised in Engineering News: Engr., Henry C. Allen, 424 Kirk Block, Syracuse, N. Y.; the contract was let July 26 to the Warren-Scharf Asphalt Paving Co., upon its proposition for paving under alternative No. 2 as follows—curb and gutter, Nelsonville block in railway strip, and Trinidad asphalt outside of railway strip, total $71,593:

GRADING AND PAVING.—Scottdale, Pa.—We are informed that the following contract was let July 22, 1898, for grading and paving, as advertised in Engineering News: Funkhauser & Coats, New Brighton, Pa., grading, per cu. yd., 25 cts.; curbing, per lin. ft., 45 cts.; crossing, stone, per sq. ft., 20 cts.; paving with Layton brick, per sq. yd., 90 cts. Foundation for paving brick is 8 ins. of coke cinders rolled with a 10-ton roller, and 1 in. of sharp sand.

SETTLING RESERVOIR.—Boston, Mass.—We are informed that the following bids were received July 2, 1898, by the Metropolitan Water Board for constructing the settling basin for the Marlborough filter beds; bid of Mignault & McGrain accepted; both bidders of South Framingham, Mass.:

Quantities.		Mignault & McGrain.	Auguste Sautier.
Earth excavation	5,700 cu. yds.	$0.18	$0.22
Split-stone masonry in mortar	70 " "	8.50	9.00
Rubble-stone masonry in mortar	25 " "	5.50	5.00
Cement-concrete masonry	36 " "	5.00	5.00
Dry paving	7 " "	1.00	1.50
Hard pine stop-planks, ft.	225 b. m.	*$0.00	*$0.00
Spruce sheet'g, tong'd & groov'd, ft.	2,400 "	*30.00	*30.00

*Per M. ft.

BIDS RECEIVED AT CORTLAND, N. Y., JULY 25, 1898, FOR PAVING.

Bidder.	Excavation, 10,600 cu.yds.	Sheet asphalt, 22,000 sq.yds.	Medina sandstone, 6,400 sq.yds.	Alternatives, Stone curb'g, 11,000 lin.ft.	Conc'te curb'g, 11,000 lin.ft.	Headers, 950 lin.ft.	Cast-iron, 40,000 lbs.	Stone Brok'n, 500 cu.yds.	Stone Gut'r, 11,000 lin.ft.	Nelsonville block, 6,400 sq.yds.	Syracuse brick, 6,400 sq.yds.	Credit, old cobbles, 500 cu.yds.	Total.	Remarks.
Alternative No. 1:*														
Trinidad Asphalt Ref. Co., New York	$0.35	$2.22	$3.20	$0.60	$0.65	$0.40	$0.02¼	$2.00	$0.48	.....	.....	$0.50	$86,940	Stone curb and gutter. Trinidad.
													82,210	Concte " " " "
Metropolitan Asp. Paving Co., New York.	.40	2.29	3.24	.52	.70	.37	.02½	1.85	.51	.....	.....	.35	88,788	Stone " " " Bermud'z.
													85,158	Concte " " " "
Columbia Construction Co., Syracuse, N.Y.	.32	2.23	2.85	.55	1.00	.31	.02½	1.40	.42	.....	.....	.25	83,232	Stone " " " Trinidad.
													83,562	Concte " " " "
Warren-Scharf Asp. Pav'g Co., New York.	.33	1.90	3.09	.53	.60	.45	.02	1.75	.37	.....	.....	.40	76,877	Stone " " " "
													73,577	Concte " " " "
Trinidad Asphalt Paving Co., New York.	.30	2.25	3.12	.58	.63	.48	.02⅛	1.65	.42	.....	.....	.45	85,554	Stone " " " "
													81,484	Concte " " " "
Alternative No. 2:†														—Curb and gutter.—
Trinidad Asphalt Refining Co., New York	.35	2.22	....	.60	.65	.40	.02¼	2.00	.48	$2.85	.....	.50	84,700	Stone. Trinidad. Nelsonville
													79,970	Concrete. asphalt. block.
Metropolitan Asp. Paving Co., New York.	.40	2.29	....	.62	.70	.37	.02½	1.85	.51	....	.....	.35	87,712	Stone. Bermudez Mack
													82,982	Concrete. asphalt. block.
Columbia Construction Co., Syracuse, N.Y.	.32	2.23	....	.55	1.00	.31	.02½	1.40	.42	2.45	$2.31	.25	80,572	Stone. Trinidad Nelsonville
													80,062	Concrete. asphalt. block.
													79,776	Stone. " Syracuse
													80,106	Concrete. " block.
Warren-Scharf Asp. Pav'g Co., New York.	.33	1.90	....	.53	.60	.45	.02	1.75	.37	2.78	2.60	.40	74,893	Stone. " Nelsonville
													71,593	Concrete. " block.
													73,741	Stone. " Syracuse
													70,441	Concrete. " block.
Trinidad Asphalt Paving Co., New York.	.30	2.25	....	.58	.63	.48	.02⅛	1.65	.42	....	2.75	...	73,101	Stone. " Hornellsvle
													69,801	Concrete. " block.
													74,252	Stone. " Met'politan
													70,952	Concrete. " block.
													74,637	Stone. " Harris
													71,337	Concrete. " block.
													83,186	Stone. " Syracuse
													79,116	Concrete. " block.

*Asphalt outside street railroad strip; sandstone inside street railroad strip. †Asphalt outside street railroad strip; vitrified brick inside street railroad strip. Asphalt pavement—6-in. American natural cement concrete, 1-in. binder, 2-in. asphalt. Brick pavement—9-in. Portland cement concrete, 1-in. cushion, 4-in. brick joints filled with patent cement gravel. Brick pavement is in street railway tracks and foundation goes to bottom of cross ties.

BRIDGE MASONRY.—Milan, O.—The following bids were received July 16 by the county commissioners for the masonry work for the new bridge over the Huron River in Greenfield township: Plymouth Stone Co., Plymouth, O., 24 8-33 cts. a cu. ft.; Firley & Andrews, East Norwalk, O., 25 cts.

BRICK PAVING.—Scranton, Pa.—Jos. P. Phillips, Cy. Engr., informs us that the following bids were received July 21, for 43,708 sq. yds. of brick paving and about 22,400 sq.ft. of 6 × 18-in. curb, set in concrete; guarantee on pavement is for 10 years; George McDonald's bid is for Scranton brick or a brick equally as good; the Alcatraz Paving Co.'s bid on Mack brick is for a 5-year guarantee:

Bids Received at Scranton, Pa., July 21, 1898, for Brick Paving.

Items.	Jas. B. Reilly & Co., Philadelphia, Pa.	George McDonald, Newark, N. J.	Blair & Kennedy, Carbondale, Pa.	Alcatraz Paving Co., Philadelphia.	Abbot-Gamble Contracting Co., 620 Chestnut St., St. Louis, Mo.*
Mack wire-cut brick, a sq. yd.	$1.65	.....	$2.10	$2.09	$2.65	$2.12
" repressed brick, a sq. yd.	1.67	.....	2.30	2.18	2.74	2.21
" wire-cut block, a sq. yd.	1.67	.....	...	2.06	2.61	2.08
" repressed block, a sq. yd.	1.69	.....	...	2.15	2.70	2.17
Syracuse brick, a sq. yd.	...	.....	...	1.98½	2.22	2.12
Guise repressed brick, a sq. yd.	...	.....	...	2.05	2.19	2.08
Guise repressed block, a sq. yd.	...	.....	...	2.06	2.18	2.00
Scranton brick, a sq. yd.	1.63	.....	1.94	1.79¾	1.96	1.85
Straight curb, a lin. ft.	.49	$0.55	.65	.60	.72	.64
Circular curb, a lin. ft.	.95	.65	.98	.96	1.24	1.05
Straight curb with tile drain, a lin. ft.	.60	.60	.80	.75	.83	.74
Circular curb, with tile drain, lin. ft.	1.06	.65	1.18	1.11	1.24	1.15
Laying 12-in. sewer pipe, lin. ft.	1.00	.29	.40	.24	.30	.30
Receivers, each	24.50	7.00	35.00	30.00	35.00	35.00

*Their first bid was for Carlucci curb stone; their second, for 5-year guarantee on pavement, and for Cleveland curb stone.

PAVING CEMENT.—New York, N. Y.—Bids for furnishing 100,000 gallons of No. 6 paving cement for use in Manhattan were received as follows Aug. 2: Jas. Lyons, 7½ cts. a gallon; Wm. B. Burke, 8 cts. a gallon.

WATER PIPE.—Atlanta, Ga.—A press report states that the following bids were received June 22 for furnishing about 250 tons 6-in. cast-iron water pipe, weighing 33 lbs. per ft., etc., as advertised in Engineering News: Pipe—H. B. Cooper, Atlanta, $16.70 a ton, f. o. b., Atlanta, freight prepaid; American Pipe Works, Chattanooga, Tenn., $16.25 a ton, same conditions; Glamorgan Pipe & Foundry Co., Lynchburg, Va., $16.25 a ton, same conditions (accepted). Special castings, ordinary standard weight—H. B. Cooper, 2¼ cts. a lb.; American Pipe Works, 2¼ cts. a lb.; Glamorgan Pipe & Foundry Co., 1⅝ cts. a lb. Supt. Water-Works, Park Woodward.

ENGINEERING MATERIAL PRICES.

TRACK MATERIALS—

New York—Angle bars, 1.05 cts. to 1.10 cts.; spikes, 1.40 cts. to 1.50 cts.; track bolts, hexagonal, 1.80 cts. to 1.85 cts.; square, 1.60 cts. to 1.75 cts.

Chicago—Angle bars, 1.15 cts. to 1.25 cts.; spikes, 1.50 cts. to 1.60 cts.; track bolts, hexagonal, 1.90 cts. to 2.00 cts.; square, 1.80 cts. to 1.90 cts.

RAILS, STEEL—

New York, new, $18.00 to $19.00; old iron, $11.00 to $11.50; old steel $9.00.

Chicago, new, $20.00 to $22.50; old iron, $12.25 to $12.50, steel, $10.50 to $11.00.

Pittsburg, new, $18.00; old iron, $13.50 to $13.75; steel, $10.50.

STRUCTURAL STEEL—

New York—Beams, $1.30 cts. to 1.35 cts.; channels, 1.30 cts. to 1.35 cts.; tees, 1.35 cts. to 1.40 cts.; angles, 1.20 cts. to 1.25 cts.; rivets, 1.75 cts. to 1.80 cts.

Chicago—Beams, 1.30 cts. to 1.35 cts.; channels, 1.30 cts. to 1.45 cts.; tees, 1.35 cts. to 1.40 cts.; angles, 1.20 cts. to 1.25 cts.

Pittsburg—Beams, 1.15 cts. to 1.25 cts.; channels, 1.15 cts. to 1.25 cts.; tees, 1.15 cts. to 1.20 cts.; angles, 1.05 cts. to 1.15 cts.

PLATES AND SHEETS—

New York—Universal mill plates, 1.20 cts. to 1.25 cts.; tank, 1.35 cts. to 1.40 cts.; shell, 1.35 cts. to 1.40 cts.; flange, 1.00 cts. to 1.70 cts.; firebox, 2.25 cts. to 2.50 cts.

Chicago—Universal mill plates, 1.25 cts. to 1.30 cts.; tank, 1.15 cts. to 1.25 cts.; shell, 1.50 cts. to 1.60 cts.; flange, 1.25 cts. to 1.45 cts.; firebox, 1.75 cts. to 4.00 cts.; sheets, 2 cts. to 2.05 cts.

Pittsburg—Universal mill plates, 1.00 cts. to 1.10 cts.; tank, 1.07½ cts. to 1.10 cts.; shell, 1.15 cts. to 1.20 cts.; flange, 1.10 cts. to 1.20 cts.; firebox, 2 cts. upwards; sheets, 1.85 cts. to 2 cts.

MERCHANT STEEL—

Machinery, per lb., 1.60 cts. to 1.70 cts.

Tool, per lb., 4.75 cts. to 7 cts.

IRON—

Pig Iron:

New York, No. 1, $11.00 to $11.25; No. 2, $10.00 to $10.50.

Chicago, No. 1, $11.50 to $12.00; No. 2, $11.00 to $11.50.

Pittsburg, No. 1, $10.40 to $10.50; No. 2, $10.00 to $10.25.

Bar Iron:

New York, common, $1.07½ cts. to 1.10 cts.; refined, 1.15 cts. to 1.20 cts.

Chicago, common, 1.05 cts. to 1.10 cts.; refined, 1.10 cts. to 1.20 cts.

Sheets:

Common American, per lb., 1.40 cts. to 2.50 cts.

Russia, per lb., 10½ cts. to 11 cts.

LUMBER—

New York:

Hemlock timber, 20 ft. and under, per M, $12.00 to $12.50.

Piling, Eastern spruce, 35 to 40 ft., 30 to 40% 12-in. butts, 4½ cts. to 4¾ cts.

Spruce, special cargoes, per M, $15.00 to $17.50.

Yellow pine, random cargoes, $14.50 to $17.00.

North Carolina pine, $2.25 to $2.40 advance over Norfolk rates.

San Francisco:

Oregon pine, per M, $15.50 to $17.50.

Redwood, per M, $17.00 to $19.00.

Redwood tank stock, up to 10 ft., $21.00 to $24.00.

GENERAL MATERIALS—

Lead, New York, 3.90 cts. to 3.95 cts.

Nails, Pittsburg, 1.40 cts.

Solder, per lb., 8¼ cts. to 11½ cts.

Spelter, per lb., 3.90 cts. to 4.00 cts.

Copper, ingots, 11.25 cts. to 11.50 cts.

Granite, rough, New York, cu. ft., 40 cts. to 50 cts.

Limestone, New York, cu. ft., 70 cts. to 80 cts.

Ohio freestone, New York, cu. ft., 85 cts. to 90 cts.

Slate, Penn. block, per square, $4.00 to $5.00.

White lead, American, per lb., 5½ cts. to 6 cts.

Lime, common state, per bbl., 70 cts.

DO YOU WANT TO PURCHASE SUPPLIES?—ALL THE PROMINENT MANUFACTURERS READ ENGINEERING NEWS.

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